Convocation Address

By Howard B. Jefferson, *President*

Clark University

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Introduction by Carl E. Wahlstrom
Vice-President of the Board of Trustees

Worcester, Massachusetts
1946

Judge Wahlstrom:

Dean Little, Dr. Jefferson, Dr. Atwood, my colleagues on the Board of Trustees, members of our distinguished faculty, fellow members of the Alumni Association, graduate and undergraduate students, all friends of Clark—

There is an ancient adage which if changed slightly would read something like this, "A vice-president and children should be seen and not heard." But as we all know, there are exceptions to all rules and it is because of an exception that I am present on this memorable occasion. The conscientious and hard-working president of our Board of Trustees, being unavoidably detained elsewhere, has issued the command that I, as vice-president, should take his place and, being a good soldier, I am obeying that command and thus find myself honored to have a part in the ceremonies of this day.

When it became known that Clark was to have a new president, a committee of the trustees spent a great deal of time giving the matter consideration and still more time in searching for the ideal man —that man distinguished because of his scholarly attainments; that man, who, because of his charm and personality, possessed tact and understanding so that he could deal sympathetically with all those about him; that man who had courage and vision and ability and could guide the destinies of the Clark you and I have come to love. After a long investigation and search they found that ideal man in the person of Dr. Howard B. Jefferson. It was then that they made a most pleasing discovery. They found that not only did Dr. Jefferson possess the qualities that are necessary to the making of a good college president, but that he also possessed a help-meet, a wife, whose charm was such that she had won a place in the hearts of all who knew her and since coming to our campus she has gained the admiration of all who have been privileged to meet her. We know that she will march by the side of her distinguished husband and play an important part in the development of the Clark of tomorrow. In the same breath that we welcome Dr. Jefferson to our midst we also extend to her our sincerest greetings and a most cordial welcome.

Having concluded our search and having found the ideal man, you and I as friends of Clark, whatever our classification may be, whether as trustee, faculty member, alumnus, or student, we must at this time reach the conclusion that we also have certain obligations. We must pledge our allegiance to and renew our interest and loyalty in our Alma Mater. We must unite and coöperate to strengthen the arms of our new leader, believing that by so doing Clark under his able leadership will go forward to higher, nobler and greater achievements. We must uphold the dignity, ideals and traditions of Clark.

Dr. Jefferson—In behalf of all the friends of Clark I am happy to extend to you the right hand of fellowship and pledge to you our loyal support. And to all friends of Clark, I have the honor to present our new president, Dr. Howard B. Jefferson.

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President Jefferson:

Judge Wahlstrom, trustees, Dr. Atwood, fellow members of the faculty, very welcome guests, men and women of Clark—

First of all, I wish to thank Judge Wahlstrom for his gracious introduction. His words were very well chosen, as I knew they would be, having heard him speak on another occasion. Some of the things he said, at least about my wife, were even true!

When Judge Wahlstrom was elected vice-president of the Board of Trustees last Saturday afternoon, I suppose he had no idea that he would be pressed into service so soon. The manner in which he has discharged his first assignment gives ample evidence that we are fortunate in having him to work with the new president, Mr. Mirick, in the difficult days ahead. I know that Mr. Mirick and Judge Wahlstrom join me in expressing our regret that Mr. Bullock has felt it necessary to retire from the Board and therefore to resign as its president. In the months that it has been my privilege to know Mr. Bullock, I have come to respect him and also to have affectionate regards for him. Although he is no longer formally a member of the Board, I am sure that his interest in Clark will continue and that he will always respond when called upon for help and advice.

It was my good fortune last week to say a word to the new women and to the new men. On those occasions it seemed appropriate to make welcoming remarks inasmuch as I had arrived in Worcester two or three weeks before the opening of the freshman induction programs. This morning, however, the situation is quite different. I would be highly presumptuous if I were to welcome those of you who have studied here before. Furthermore, there are many people on this platform much better qualified than I to speak about Clark University. There is one respect, nevertheless, in which I have a decided advantage over them, including those who have been on the faculty for many years. They know even less than I do about the policies of the new administration.

Although I cannot speak with authority about education at Clark, I would like to make a few comments about education in general and about what I hope will be accomplished here. Many of you have recently spent one or more years in the armed services and have been stationed in various parts of the world. During the years that you were serving your country in this way, a number of people at home collaborated on a book entitled "While You Were Away." This volume was an attempt to record developments in various aspects of our American life during the war years. I should like to remind you that "while you were away," faculties in our colleges and universities spent a great deal of time and energy examining the processes of prewar education and proposing new objectives and new programs of study. Several committee reports have been published and others have been prepared for limited circulation. All of them that I have seen contain many interesting ideas as to what the colleges plan to do to and for their students.

It is my firm conviction that the students themselves ought to be let in on the secret and thus have some awareness of what is happening to them. I would strongly advise that you read, think, and discuss the more important topics related to current disputes in education. You would do well by starting with some pronouncements by President Hutchins, now Chancellor Hutchins, of the University of Chicago—for example, his "The Higher Learning in America" and "No Friendly Voice." After becoming acquainted with this point of view, you should then turn to John Dewey and a good place to look is in his new book, "The Problems of Men," especially Part I which deals with education. This reading will give you a clear insight into the two extreme sides of an important current issue in educational thinking. It might be well to follow this with a study of the balanced report of the Harvard Committee, published under the title, "General Education in a Free Society." When you have read all these books, call at my office and I shall be glad to give you further references. My point is that you ought to become self-conscious about what you intend to get from college and you ought to be as clear as possible as to what Clark University is trying to do to you.

When you have finished your work here, what kind of test will you use to discover whether college was worth while for you? You might ask this kind of question: What skills have I acquired? What specific training have I received? What can I do? This is a perfectly legitimate test. We honestly hope that you will receive helpful training and that you will acquire some skills which will be of definite service to you in your professional or vocational development. But I should warn you that this is not all we mean by education. Twenty-five years ago Ludwig Lewisohn reported in his book, "Up Stream," on his attempt to explain the typical American student to his European friends. His summary was that "to the average intelligent American, education, for which he is willing to deny himself and pay taxes, means—skill, information—at most, accomplishment. Skill and knowledge with which to conquer the world of matter. It does not mean to him an inner change—the putting on of a new man, a new criterion of truth, new tastes and other values."

We at Clark *do* intend that education should mean this further thing. We intend that when you finish your work here you will confront your course of study with this kind of test question: What has happened to me personally? How have my insights been deepened and my perspectives widened? What kind of start have I made in becoming a person of intellectual and spiritual depth?

This phase of education is usually called *general* as distinct from *vocational* or *specialized*.

So important is this for our national life that President Truman recently appointed a special Commission on Higher Education. The purpose of the Commission, in the President's words, is as follows:

"It seems particularly important, therefore, that we should now reëxamine our system of higher education in terms of its objectives, methods, and facilities; and in the light of the social role it has to play.

"These matters are of such far-reaching importance that I have decided to appoint a Presidential Commission on Higher Education. This Commission will be composed of outstanding civic and educational leaders and will be charged with an examination of the functions of higher education in our democracy and of the means by which they can best be performed."

In the few minutes that remain, I should like to make some brief comments on the meaning of general education which, incidentally, may throw light on the logic underlying our organization of studies at the college level.

First of all, there are some specific skills that belong in the field of general education, the most important of which have to do with communication. The two ways in which we communicate are with words, as in our own or some other language, and with other symbols such as are employed in the science of mathematics.

It is probably true that the most obvious mark of an educated person is his ability to express himself clearly, forcefully, and graciously in his own language. The most important problems in modern life are created by difficulties in mutual understanding and these, in turn, are derived from breakdowns in communication. Particular effort must be expended in refining our use of words and in clarifying our meanings.

The linguistic skill includes the use not only of our own language but of others as well. The processes of history, having forced the nations of the world into a neighborhood, require also a growing number of people in our own country who can handle with ease at least one language in addition to their own. But even if you do not master a second language, the study of foreign languages should serve to give you a desirable kind of intellectual emancipation. I have discovered that many students never arrive at that point where they make a clear distinction between words on the one hand and things or processes symbolized by words on the other hand. When you have once grasped the fact that you can use symbols drawn from several languages in referring to the same physical object, you have taken a significant step in becoming emancipated from verbal provincialism.

Another mode of communication is that which is used widely in the natural sciences—the symbols of mathematics. Several centuries ago Galilei, who laid the foundations of modern physics, defined the scientific method as reading directly the book of nature. But he added that in order to read the book of nature, you must understand the language in which it is written, and that language consists of the symbols of mathematics. It is true that we have revised somewhat our conception of the mathematical nature of the world since Galilei's day, but his fundamental emphasis still stands. In addition to the scientific utility of mathematics, we find that this science, together with logic, is the most perfect example of demonstrative thinking. To have missed the beauty of clear demonstration as portrayed by mathematics and logic is to have missed the vision of one of the most impressive achievements of the human mind.

So much for the skills of general education. Let us turn now to a brief survey of the content. Some acquaintance with the natural sciences is a necessary ingredient of general education. I am speaking here not of the education of a scientist but of the scientific education of a non-scientist. The purpose of this phase of education is to build up an appreciation of the basic ideas in science, the methods which have resulted in the acquisition of reliable knowledge, and the impact of science upon the behavior, the attitudes, and the social life of men and women. Care should be taken not to present science as merely a number of conclusive results. On the contrary, stress should be placed upon the method and upon the unsolved problems.

Although there are unsolved problems in the natural sciences, it is quite evident that the most critical problems of today are to be found in those areas where human beings try to organize themselves in various ways. Hence the importance of studies in economic and political geography, economics and sociology, history and international relations, and social psychology.

Industry is occasionally slowed down, not because of scientific ignorance or because of a paucity of technical skill, but because there is friction between groups of human beings in our industrial organization. Our domestic political order shows signs of illness, not because we lack technical knowledge but because we have not found the social formula which will merge successfully the varying interests of the many groups which make up our society. The issue is similar with respect to the urgent need of building an effective international organization. General education must provide the eyes with which we can see simultaneously the world of natural order, the world of social order, and the relations between them.

The more thoroughly we analyze these problems, the more evident it is that eventually we must face ourselves as persons. How account for the behavior of individuals? What are the basic and irrational drives that lie beneath the thin veneer of rational and civilized living? How anticipate the *feeling* response as well as the *thinking* response of people? For help on these and similar problems we turn, at least in part, to psychology.

But we should not stop with psychology. Great light is thrown on human nature, for example, by works of literature. As you live through the experiences of the characters in Tolstoy's "War and Peace," you are learning much more than the experiences of some

Russians during the Napoleonic era. You are here face to face with human action and emotion universal in scope. You observe patterns of behavior which reappear in every generation. Or when you read Shakespeare's "Othello," you have dramatized for you in Iago the meaning and consequences of a life based on cold, cruel intrigue, and in Othello you see vividly what happens to a person whose character is poisoned by suspicion and jealousy.

And do not neglect the other arts. There is a false assumption in America that art is merely decorative and not of the very substance of life. This is not true. Let me give one example. There is a great deal of talk today about the desirability of studying American civilization as a whole. But how can you know that civilization without witnessing the American scene as portrayed by our painters? Look at the works of those famous artistic rebels of 1908. In them we find a large, gusty good humor, an integrity in portraying America, rather than a slavish imitation of the French masters. We see here a tolerance and a hospitable mind characteristic of men who have looked on life in the spirit of fair play. Twenty years later others carried on this tradition—Charles Burchfield and Edward Hopper telling the story of America as they saw it with directness, simplicity, and insight. Others depicted with native integrity the Midwest—Grant Wood, John Stuart Curry, and Thomas Benton. To neglect this part of America is to be sadly incomplete in our knowledge of American culture.

If there were time, I would attempt to comment on the other arts, particularly on music which Schopenhauer has called the highest of the arts and the surest clue to the nature of reality.

Finally—and this will surprise you—do not forget philosophy. The role of philosophy in general education has been accurately described by Dean DeVane of Yale College. He says that the place of philosophy in the curriculum is similar to that of the stage manager in Thornton Wilder's delightful play, "Our Town." In that play, the stage manager attempted to give the background of the action, to interpret what was going on, and to point out connections. The curriculum of general education should itself be philosophical in the sense that the various parts are connected into a meaningful whole and the subject of philosophy should attempt to make the connections and the unity articulate.

These, then, are the materials of general education: the skills of communication, familiarity with the natural sciences, the social sciences, psychology, literature and the fine arts, philosophically brought together in a meaningful whole. The purpose of such education is to help persons become responsible citizens and make intelligent decisions.

Norman Cousins created a sensation with his editorial on modern man being obsolete. Later he wrote another editorial, equally significant, which escaped the notice of the public at large. It was prompted by his reflections on the decline of Athens following the death of Pericles. After analyzing the stages in Athens' decline, he concluded that "the fall of Athens need not have been inevitable. It could have been saved at almost any point—if only the people could have seen themselves as history later saw them; if only they could have sensed their purposelessness." The saving of Athens required a type of leadership which it did not get—a leadership courageous but not irresponsible; regarding democracy as a means to democratic and not to selfish ends; having an understanding of and a feeling for the broad struggle for larger freedom. "But such leadership does not spring into being automatically. Sometimes it can be generated only out of the quality of leadership in the people themselves." Let us hope that you and I may become the kind of people who can generate a quality of leadership adequate for these times.

September 24, 1946

The Inauguration of

HOWARD BONAR JEFFERSON

as President *of* Clark University

Howard Bonar Jefferson

Proceedings of the Inauguration
of
HOWARD BONAR JEFFERSON
as President *of* Clark University

The First of February, Nineteen Hundred Forty-Seven

CLARK UNIVERSITY
Worcester, Massachusetts

Order of Exercises

FEBRUARY 1, 1947

LUNCHEON FOR DELEGATES Estabrook Hall	1:00–2:00 P.M.
ACADEMIC PROCESSION	2:15
INAUGURATION EXERCISES	2:45
RECEPTION President Jefferson's House 160 Woodland Street	5:00
DINNER FOR DELEGATES Worcester Club 1 Oak Street	7:30

The Inaugural Exercises

Presiding: George H. Mirick
President of the Board of Trustees

PROCESSIONAL MARCH

William Self

INVOCATION

The Reverend Henry Pitney Van Dusen
President of Union Theological Seminary

GREETINGS

For the City of Worcester
His Honor Charles F. Jeff Sullivan *Mayor*

For the Commonwealth of Massachusetts
The Honorable Arthur W. Coolidge *Lieutenant Governor*

INDUCTION ADDRESS

Charles Seymour
President of Yale University

HYMN O God Our Help In Ages Past

INSTALLATION OF THE PRESIDENT

George H. Mirick

INAUGURAL ADDRESS

Howard Bonar Jefferson
President of Clark University

BENEDICTION

The Reverend Henry Pitney Van Dusen

RECESSIONAL MARCH

The Invocation

by

HENRY PITNEY VAN DUSEN

President, Union Theological Seminary

Let us unite in prayer. Almighty God, light of the minds which seek truth, joy of the hearts which love beauty, strength of the wills which serve duty who has guided Thy people from generation to generation, we thank Thee for the summons which calls us together in this hour. For the heritage of fair memories and high achievements which are gathered here and which surround us as a cloud of witnesses, we thank Thee. For the unbroken line of mankind's great spirit who in different ages and by divers paths have beat their way down the course of human history toward a richer life for their fellows. For those who have with difficulty lifted and then courageously borne the dim torch of scholarship against bigotry, prejudice and persecution and have left us their legacy of truth. For those who have served in this seat of learning, those who conceived it with wisdom and foresight, those who launched it with courage and boldness, those who conducted it through darkness and light and all who, inspired by their example, have carried forward their high enterprise. For those in our own day who are their successors and especially for him who today is to be inducted into high office of leadership and responsibility, we thank Thee. O Thou who does commit unto each generation the swift and solemn trust of life calling them to the task of their own day grateful heirs of their father's faithfulness. Grant to the leadership of this university gifts adequate to the demands of the times in which Thou has placed them: insight to see life truly and see it full, vision to discern step by step a true course ahead, wisdom to recognize the values which endure and courage to cleave to them, rekindled faith in the regency of truth and devotion undismayed to its quest and its service. Cast Thy blessing, we beseech Thee, upon this and every institution of study in the land, guard them from the pride of learning, from narrowness of class, from dependence upon riches, from the selfish use of power in a day when material things hold sway and men stumble in uncertainty and fear, grant that they lose not their high calling to follow the gods of the passing hour, rather, we beseech Thee, inspire them so to teach that they send forth men and women richly equipped for the leadership of their generation and the service of the common good through Jesus Christ Our Lord. Amen.

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Address of Welcome

by

GEORGE H. MIRICK

President of the Board of Trustees

Your Honor Lieutenant Governor Coolidge,
Your Honor the Mayor, President Van Dusen,
Dr. Shedd, Ladies and Gentlemen:

In behalf of Clark University I have the privilege of extending to all of you who are present to join with us in the celebration of an important event in our history, a cordial greeting and welcome.

February 1 is a day of particular significance to us. It commemorates the birth of our founder, Jonas G. Clark. Again is to be recorded our grateful appreciation of his beneficence. To him we owe our existence. What we have heretofore achieved or what we shall hereafter accomplish stems from his generosity.

This University, as initially conceived and organized, was to function only as a graduate school, primarily given over to research activities in the field of pure science. In its early stages this pattern was closely followed. Its scope was enlarged as time progressed.

Ultimately Mr. Clark came to the conclusion that the Institution should embrace an undergraduate department, where young men, who might otherwise be denied the opportunity, could obtain a college education at a low cost. This he made manifest by the provisions of his will. A collegiate department was accordingly established and conducted as a separate entity. About the only thing it shared in common with the graduate school was the right of its students to use the same grounds and buildings. While the funds for both departments were administered by the same board of trustees, separate presidents and faculties were required.

This anomalous situation continued until 1920, when it became possible to unite the two departments, graduate and undergraduate, under one president.

Twice previously we have on Founder's Day installed as we shall today a president. He, whom we induct into office on this occasion, is the successor of notable leaders and educators. Dr. G. Stanley Hall, the first president of the University, held office with great and world-wide distinction from 1888 until his retirement in 1920. Carroll D. Wright, the first president of the College, eminently filled that position from 1902 to 1909. His successor, installed on Founder's Day, February 1, 1910, was Dr. Edmund C. Sanford, a man of scholarly attainment, devoted to his associates and to his students. Possessed with an understanding of young men over and beyond that of most individuals, he discharged the duties of his office with rare ability until 1920. His resignation and that of Dr. Hall coming at the same time permitted and required the trustees to select a president who would act as such for the combined and whole University.

Again on Founder's Day, February 1, 1921, we installed as president, Dr. Wallace W. Atwood, now our President Emeritus.

It was given to Dr. Atwood to hold office far longer than is the lot of the average president of an institution such as ours. His administration, long and useful, brought us great prominence in the field of geography. During his term of office much was accomplished by way of improvement and addition to our physical plant. In addition it saw the organization and establishment of a new department, the Women's College. That he might devote his activities to the accomplishment of things which his responsibilities as president would not permit, he tendered his resignation, effective September 1, 1946. This was accepted by the trustees with sincere regret.

To all our former presidents we are deeply indebted. They built well.

To Dr. Jefferson, whom we install today as our new president, we look with confidence and assurance for that leadership necessary to meet our every obligation and opportunity of service.

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Greetings

For the City of Worcester

CHARLES F. JEFF SULLIVAN, *Mayor*

Mr. President, Board of Trustees, the Honorable Lieutenant Governor Coolidge, Dr. Jefferson, Distinguished Guests, Members of the Faculty and Ladies and Gentlemen:

As mayor I can assure you that you have already won a place for yourselves in the esteem and affection of the people of our city, and you, Mrs. Jefferson, and your family are most welcome among us. On this day of great significance in your life when you take over the administration of Clark University and Clark College, you have with you the best wishes of the citizens of Worcester. Worcester looks forward to the great work which we know you will accomplish as a leader of the University. That is especially close to the hearts of the citizens of Worcester.

You come here as the third president of the University and the fourth president of the College. You follow in the footsteps of great predecessors, men who have achieved distinction and brought to Clark University renown. Worcester is proud of Clark, Dr. Jefferson, and of the great men who represent her in places of distinction and honor and responsibility in all parts of the world. Worcester will be proud of you as the new president.

When Jonas G. Clark founded Clark University, he wanted to give to others opportunity in life that he did not have. Born in Hubbardston, not far from here, 132 years ago today, he started life with little of this world's goods. Native business ability and strength of character developed along the way of life led him on to fortune and honor. He traveled far and wide to build a career of business success. But he found as he traveled and grew in stature that there were opportunities for culture and formal education that he was denied. He determined that with the fortune he had amassed he would provide these opportunities for others. And so, through his kindness and generosity, Clark was founded. His contribution at that time, I am informed, was the greatest single gift of an individual to the cause of education in the history of our nation. Others followed his example on a larger scale, but Jonas G. Clark led the way.

Clark was founded as a university and in the intervening years has contributed to the advancement of knowledge and science. Here at this temple of learning you have searched for the truth. I am reminded of the words of Jesus, "And ye shall know the truth and the truth shall make you free."

We in Worcester have derived great benefit from the University. We have gained this benefit directly. Clark has brought honor to Worcester because of its outstanding reputation. In the late war, the service of Clark University to the United States Government in the field of geography was outstanding. It is a source of gratification to the people of Worcester that Clark College has recently afforded opportunity for education to young women.

I do feel that I can convey to all here present the high regard in which your University is held by the people of Worcester. Here in the quietude of these surroundings you are maintaining with success the ideals of the founder of this institution, you are contributing greatly to that which is best for our city and citizens —the strengthening of mind, the inculcation of knowledge, the development of character, the broadening of the intellect.

Dr. Jefferson, the people of Worcester I am sure, through me, wish for you on this eventful day great happiness and success in the administration of this University and we extend to you our heartiest congratulations and best wishes.

Greetings

For the Commonwealth of Massachusetts

ARTHUR W. COOLIDGE, *Lieutenant Governor*

President Mirick, Dr. Jefferson, Mayor Sullivan,
Distinguished Guests, and Ladies and Gentlemen:

It is my privilege to represent today at this happy occasion His Excellency Governor Bradford and the Commonwealth of Massachusetts. I also have a personal interest in this occasion through acquaintance with Carroll D. Wright. Just as the war veterans of today are now taking up their residences in the various communities, Carroll D. Wright, on his discharge from military service after the Civil War, established his home in my town of Reading. The influence of his interest in public schools, in churches, in every civic activity is still felt in that town. It is almost a tradition—a tradition of good citizenship.

Carroll Wright maintained his home in Reading until 1885 when he became the first head of the United States Bureau of Labor. Thereafter, he endeavored to commute between Washington and his home in Reading, but with the facilities as they then existed, he found that impractical. Carroll Wright left his mark upon the town of Reading just as he did on Clark University during those years when he served as the first president of the undergraduate division.

During this last month, there has appeared in the metropolitan newspapers in Boston an advertisement which read thus: "Wanted. A young Harvard graduate or the equivalent." Among the answers to that advertisement was one which asked the question, "What do you mean by the equivalent? Do you mean two Princeton men or one Yale man on half time?" We are glad to know that Dr. Jefferson, although he holds a degree from Yale, does not plan to make this new position of his a part-time activity. We all know that in these days the presidency of a college or a university is a full-time job. The Commonwealth of Massachusetts lists among its most valuable assets the educational institutions located within its borders. Each year hundreds of young men and women from all over the world seek admission and opportunity to learn. To each of these institutions there are attracted an administrative head and a faculty of superior attainments. Each of these officers serves his own institution but in so serving and at the same time he serves the community in which that institution is located, and he also enriches the life of the whole Commonwealth.

Unlike Topsy, Clark University did not just grow up haphazard. It was conceived by its founder after careful thought and study, after visiting the leading foreign universities of learning, old and new, and with the particular purpose of creating the means by which the highest culture of one generation could best be transmitted to the ablest youth of the next generation.

Through the years Clark University has consistently followed its plan and its purpose. The Commonwealth of Massachusetts places its stamp of approval on Clark University and welcomes as its new President, Dr. Howard B. Jefferson.

Induction Address

by

CHARLES SEYMOUR

President, Yale University

(Read in President Seymour's absence by Clarence P. Shedd, Professor of Religious Education, Yale University)

Professor Shedd's Introduction

I am sure there is no one in this audience this afternoon who is half as much disappointed or unhappy about the absence of President Seymour as is your speaker. We know that a message is not just words—it's a man and words. And those of you who know, as many of you do, President Seymour know exactly what I mean when I say that. My own son, who has lived away from New Haven in schools a good part of his lifetime, saw President Seymour for the first time a few weeks ago and he came home terribly excited. He said, "I believe that President Seymour is more completely my picture of what a university president should look like and be than any man that I have ever seen." And I am, therefore, terribly disappointed that you cannot see and hear him. And I am disappointed on my own account because for months I have looked forward to this event and to the privilege of hearing his message from his own lips.

President Seymour wants me to share with you this afternoon his deepest regrets over his inability to share in these ceremonies which he so keenly feels mark the opening of a new era in the distinguished history of Clark University, and to let you know how highly honored he felt in being asked to serve as an academic ambassador, bringing to you his own and Yale University's message of warm congratulations and of constant good wishes.

Until late last evening, President Seymour had hoped that his doctor would say that he might make the journey today but the continuation of a high temperature and, more important, the complete loss of his voice made the journey impossible.

You will understand how seriously he took his responsibility and how greatly he feels his loss today when presently you hear his address. I have only just seen President Seymour's manuscript. The only thing I can say about it in tribute is that I wish I could own it as something that I had myself produced.

President Seymour's Address

It is a great privilege, of which I am keenly aware, to participate in these ceremonies which celebrate the opening of a new era in the distinguished history of Clark University; I am honored to serve as academic ambassador bringing from my own university messages of warm congratulation and constant good wishes. For me personally it is a happy moment when I may carry to the new president, himself an alumnus of that university, the tribute and the felicitations of his alma mater. Yale has been profoundly appreciative of the service on her faculty of teachers trained in your scholarly traditions; she is equally proud that for the maintenance and strengthening of those traditions you have called to your leadership one of our own sons.

If I might speak for the larger academic world, I would voice the universal and enthusiastic gratitude for the outstanding service of Clark University, not merely in the production of scholars, dedicated to the teaching profession, but still more because of the nature of the ideals which they here learned to foster, and which through them have inspired academic standards throughout the nation. The exposition of those ideals, when the university was first established, constituted an event of primary importance in American educational history. Those were days when there was need of a reaffirmation of wholehearted devotion to the pursuit of truth in the higher levels of learning and of liberation from the trammels of academic tradition in study and teaching. There was need of relating scientific scholarship to human welfare in the broadest sense and the recognition of methods by which eternal principles might be applied to the ever-changing conditions of human life. There was above all a need of transformation of academic habits by which the student might be brought into close personal relations with the teacher and in his free pursuit of the truth catch the enflamed enthusiasm of the master.

The history of this university has been the steady effort to meet the need by the translation of ideals into accomplishment. It is a matter of great good fortune that the academic leaders of Clark have not been willing to descend to the level of mere administration, but by their unremitting devotion to the all-important business of teaching and the lively development of scholarship, in their own fields of study, have themselves personified the university ideal. President Hall's entire career was an answer to the prevailing demand for scientific study as applied to man himself. President Atwood stood as one of the rare scholars who perceived the vital importance of the geographical environment of man as affecting his culture and the peaceful relationship necessary to his progress or perhaps to his existence. Such emphasis came at a moment when the new conditions of a shrinking world called for scientific research as a basis for public understanding.

Now we enter a new era following upon the most disastrous holocaust of human history. We are confronted with the necessity of a redefinition of values. The extraordinary progress that has been achieved in the study of the physical sciences during the past fifty years has placed tremendous material power in the hands of man; such progress has not been equalled in the development of moral power. A Frankenstein monster is almost loose. Salvation can come only from the discovery of new sources of spiritual strength, reinforced by a conscious appreciation of what will serve and what will endanger the true welfare of mankind. This is the challenge thrown before American democracy, which must be courageously met if democracy is to persist. At a recent conference the Archbishop of Quebec made the issue clear: "The only decision of any importance for a free man in this short life is the decision between good and evil." It is therefore appropriate and fortunate that Clark University should have chosen as her next president a philosopher. For the crisis of the times is determined not by the need of more knowledge but by the need of greater wisdom.

The history of the past fifty years is that of a series of disillusionments. We need not overstress the fact since the same is true of any period. As we look back nostalgically we doubtless exaggerate the brightness of the hope of our younger days. Will Rogers used to comment, "the old gray mare ain't what she used to be, and she never was." If you will pick up a New York newspaper of half a century ago, one for example carrying the slogan, "All the news that is fit to print," it is difficult to discover on the front page, as perhaps it is today, any items that might properly be so characterized. When young Dr. Harvey Cushing was in the Johns Hopkins hospital, his mother wrote him: "What a mess the whole world seems to be making in the administration of affairs . . . the present Congress and the way in which it seems to be managing the vital business of the land. When I read the papers I groan over the miseries and the mistakes. The Greeks, the wars and rumors of wars . . . India, and the stupidity of mine own countrymen." This was in April of 1897.

The sense of existing disappointment, nonetheless, is not relieved by the reminder that earlier generations had their own troubles. The Hague Conference, plans for the limitation of armament, Mr. Carnegie's noble devotion to the cause of world peace, the perfect argument of Norman Angell that the fear of war was merely illusion, were immediately succeeded by the international bankruptcy of 1914. The crusade of Woodrow Wilson, which for a moment inspired our faith and pointed the way of hope, went down to defeat in the debates of a partisan and ill-instructed Senate. When the century opened, liberal democracy seemed on the verge of completing its conquest of every great state on the globe; forty years later it was fighting for its existence, back to the wall, against the fierce and apparently victorious onslaught of obscurantist autocracy. In the nineties of the last century, there were certainly various indications that the habits of industrialist capitalism did not keep step with our professions of liberal democracy, but the method by which Theodore Roosevelt settled the anthracite strike of 1902 gave promise of a permanent basis for peaceful coöperation between labor and management. Yet the year 1946 in the United States witnessed more workers out on strike than any in our history.

But the greatest disappointment lies in the field of applied science, not from lack of accomplishment but from failure of purpose. Through scientific research and its application to habits of life, tremendous power has been produced; we have gained control of energy and built for our enjoyment and convenience a host of marvelous machines. But what does it profit the world in happiness, security, or good-will? I quote from a distinguished scientific scholar.

"Science has made possible an agriculture so bountifully productive that the labor of one man can now feed three, and yet half the world goes hungry. Science has developed methods of communication so ample and rapid that men can talk to each other from the corners of the earth, but this has increased, rather than lessened, suspicion and ill-will and hatred in the world. Science has made the globe so small that in a few hours a man can fly to any part of it; but instead of rejoicing in the chance to mingle freely with his fellow men, he shudders at the ease with which destruction can be hurled across a hemisphere. Science has raised living standards and material ease to heights undreamed of in the past, yet economic bitterness and strife threaten to poison our society. Science has revealed so much of the ultimate nature of the material world that man seems close to understanding the deepest mysteries, but the immediate consequence of these revelations is that civilization is in danger of actual physical destruction."

Only a blind simplicity would accept the situation we face as anything but fearsome. And yet we have one great advantage which, if utilized with wisdom and courage, will help us to the road of salvation and of progress. We have by the very course of events been stripped of the illusion that knowledge alone suffices us. We are aware, as we were not aware after the last war, of the extent of our own frustration and the imminence of our peril. And we are learning that the vital means of salvation and of progress lie not in the field of mechanics but in that of morals.

For the failures of the past quarter century, the universities of the world must carry their full share of blame. Sir Richard Livingstone, in his appeal for a return to the Greek aspiration for the Good Life, suggests that the years between wars should be called the "Age without Standards," an age not without its great virtues but with a central weakness in that "good and evil are mixed together and that the tares not only grow among the wheat but are not distinguished from it." Our universities produced during those years, as was their duty, skilled technologists but few leaders capable of showing how to make wise use of the new instruments they gave to mankind. The faculties, perhaps in fear of a return to medieval dogmatism, perhaps in irrational reverence for what was called the neutrality of scientific scholarship, left their students in college and public opinion in the market place without guidance in the determination of values.

The university cannot evade the responsibility placed upon it, not merely for the training of the mind but for the development of purpose. If we continue such evasion we shall certainly fail to bring to our faculties the men and women who today in a new surge of idealism are ready to serve our cause and who might be equipped. During the past quarter-century the universities have made no great success of their efforts to recruit for the profession. We have not produced enough great teachers. I say this not as a gratuitous insult to the distinguished assembly here gathered nor in the consciousness that I am at some safe distance from my own faculty halls. It is merely a recognition of the prevailing trend, on almost every university campus of the land, where only in discouraging and diminishing proportions do we find the leaders of the graduating class willing to accept the hardships and achieve the glories of the teacher's life. There is more honor to Clark because of the high proportion of her graduates who have chosen that life.

We shall not correct that trend merely by an upward swing of faculty salaries, even though we insist upon it as a preliminary essential. No man with brains enough to be hired as a teacher will ever regard the job as financially alluring. He will enter the academic brotherhood in clear realization that he is destined to "scorn delights and live laborious days." Much can be done for the encouragement of the young scholar during the critical period of his development through financial assistance and through the sensible alleviation of routine pedagogical drudgery. But the vital attraction to him will be the sense of fellowship in a cause directly devoted to the service of mankind. If we fail to define our ideal of values we shall not win that devotion. There were various factors contributing to the poorness and thinness of the crop of teachers produced after the last war. The primary cause, to my mind, was the failure of the university to kindle among youth a flaming sense of the university's mission.

But granted that we acquire the necessary manpower, we must take heed that its strength is directed towards a clearly-viewed end. There is the ever-present danger that we shall dissipate our energy in a variety of undertakings, each of them useful and apparently desirable, but together distracting from the main purpose. They must be critically evaluated in the light of the ultimate end to make sure that they strengthen and do not detract from effective service to that purpose. The experience of the war has greatly increased the respect of industry and of government for the direct contribution of university faculties and laboratories to the conduct of practical affairs. This is flattering. But we cannot afford to sacrifice one iota of concentration upon our essential mission, which is the education of youth to the appreciation of values.

Of equal danger is the temptation so to compartmentalize our studies that their relation with each other and with university purpose is forgotten. We are all too well acquainted with the tendency to break our work into specialized fields ever growing smaller and its reflection in the creation of new units of administration. This is convenient but dangerous. Department meetings, department luncheons, English and History cubicles in the library separated from Chemistry and Physics laboratories, have segregated the scientists, the engineers, and the followers of the liberal arts into their particular group interests. We have come to speak automatically of the sciences on the one hand and the humanities on the other forgetting that if the knowledge acquired in the one field or the other is to serve wisdom it must be directed towards a single goal.

The obligation to clarify our university purpose is imposed by yet higher necessity than even the attraction of teachers, the prudence of our administration, or the coördination of our studies. It results from our responsibility of immediate service to the nation and humanity. With the expansion of human knowledge that responsibility ever increases for the use of knowledge toward a proper end. The function of the university is to educate, but it must educate to good purpose. Otherwise it will intensify rather than alleviate the crisis in which the world finds itself. Mr. Justice Jackson has issued a stern warning and a clear-cut challenge: "It is one of the paradoxes of our time that modern society needs to fear little except men, and what is worse it needs to fear only the educated men. . . . The most serious crimes against civilization can be committed only by educated and technically competent people . . . if education is to be the instrument of our improvement it must be consciously aware of its mission."

Our obligation is to discipline the minds and uplift the hearts of men to an appreciation of values in the light of history and in consideration of the conditions that surround us. Otherwise, in the words of a university president, "it is completely irrelevant. To say of a university, now, that its object is to maintain itself or to preserve accepted values and institutions is to deny the responsibility imposed by the community on these privileged persons whom it has set apart to think in its behalf, to criticize its ways, and to raise it to its highest possible moral and intellectual level." The definition of this mission in more exact terms must be developed in the atmosphere, the discipline, and the habits of each individual institution. They will vary from place to place. No wise college president has ever told another what he ought to do. But the central purpose must always be clear and every administrative step must be taken with the final end in view.

It is not so much in deference to the special interests of your new president as it is from historical considerations of world events in their relation to academic policies, that I pray for a revival of the influence of the philosopher in the university community. We cannot all hope to be admitted to the fraternity of true philosophers. But we can all of us learn from them how prudently to bring together our scattered and often mutually antagonistic efforts into the true love of wisdom. We can with their help learn to define our purpose in positive terms, taking form in life, and establish a standard that distinguishes good from evil. For a comprehension of these values we are called to enlighten the minds and hearts of youth. This is the university's mission.

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Induction of the President

by

GEORGE H. MIRICK

President of the Board of Trustees

Howard Bonar Jefferson:

You have by unanimous vote of the Board of Trustees been chosen President of Clark University. Upon you has been conferred the highest honor within its province to give. By your acceptance of that high honor you have undertaken to assume a burden of corresponding proportions, a trust, the fulfillment of which will require upon your part the exercise of sound judgment, vision, courage, patience, and tireless effort. You are given a rare opportunity. Yours it is to plot and direct the course Clark University shall pursue, to the end that it may meet its designed purposes and obligations.

We have every confidence in you and your ability, not only to keep and maintain the position which Clark University has already attained in its relatively short existence, but to increase and add luster to its record of achievement.

In the name and in behalf of the Trustees of Clark University and in accordance with custom I now invest you with all the powers and privileges of your great office. As a symbol of your authority I deliver into your hands and keeping the charter of the University.

May the blessings of God be upon your administration.

Inaugural Address

by

HOWARD B. JEFFERSON

President, Clark University

In accepting this symbol of office, I am moved to express publicly that which I felt privately when starting my work here last fall. I had a feeling of profound humility and of staggering responsibility as I entered the office initially given distinction by G. Stanley Hall, and effectively carried on by Wallace W. Atwood. Nor do I forget those men who guided the destinies of the collegiate department during the first eighteen years of its existence—Carroll D. Wright and Edmund C. Sanford. The mention of these names which stand out in Clark's administrative history calls to mind a statement made at Dr. Atwood's inauguration twenty-six years ago by Charles H. Thurber, at that time president of the Board of Trustees. He said that the history of education in America records many curious and interesting events, but nowhere does it mention an instance where one man, at the same moment, has been inaugurated as the second president of a university, the third president of a college, and the first president of both. Yet that is precisely what happened to my distinguished predecessor. By a simple arithmetical procedure, and by taking into account one further development in the organization of this institution, I am forced to the conclusion that I am now the third president of the university, the fourth president of the College for Men, the second president of the Women's College, and the second president of all three. This is an impressive array of titles but no more impressive than the duties to which they refer.

It has been pleasant to receive the expressions of good wishes from the city of Worcester and from the Commonwealth of Massachusetts. The participation of Mayor Sullivan and Lieutenant Governor Coolidge in these exercises nevertheless serves to remind us of a serious obligation. Educational institutions are sometimes classified as public or private, but there is one sense in which they are all public. In the last analysis they exist to serve the city, the state, the nation, and the world community.

As though all this were not sufficient to create an appropriate spirit of humility, my friends and associates have arranged that these exercises should coincide with Founder's Day, thereby deliberately calling our attention to the fact that we cannot and should not ignore the compelling influence of the past. A little reflection produces the judgment that it is altogether fitting to observe the Inauguration Day and Founder's Day together. One connotation of the word "inaugurate" is "to commence" or "to enter upon" or "to set in motion"; that is, it has a future reference. The fact of Founder's Day, on the other hand, inevitably calls our minds back to the beginning of things. Yet the past and the future do have a meeting point in the present. The history of this institution has meaning for us insofar as its consequences are now felt, and the future is saved from the status of a mere dream only by being securely rooted in the present. As Professor Whitehead has said, "The present contains all that there is. It is holy ground; for it is the past and it is the future."

What is there in the past of Clark University which we cannot ignore and to which we would give renewed commitment? There are two things that stand out above all others. In the first place, there has been a persistent tendency to make decisions rationally and deliberately. Those responsible for developing the character of Clark were never interested in making it merely one more university or college. They resolutely avoided slavish imitation. They spent fully as much energy defining the unique purpose of the institution as in working out educational programs. In the second place, our responsible leaders have been unusually sensitive to the urgent needs of the social and educational situation within which they made their choices.

I should like to illustrate these principles by referring briefly to three crucial periods in Clark's development. One of these was identical with the founding of the university. Jonas G. Clark, G. Stanley Hall, and their associates were never seriously tempted to start one more institution which would duplicate the type of education already being carried on so well by a number of colleges in New England. Before a single student was admitted, there were many months during which a careful analysis was made of the educational scene. President Hall, whose studies had already made him an authority on higher education, travelled widely in America and in all of the countries of Europe with a view to defining the outstanding need which this university would try to meet. His conclusion was that we should establish within the borders of this nation a center where intellectually ambitious Americans could pursue their studies beyond the college level. In 1887 there were only limited opportunities for graduate study in America. Most of our young scholars were compelled to go to Germany for advanced work. Johns Hopkins, the first genuine university in America comprising a graduate school as well as a college, had opened its doors only in 1876. The crying need, it seemed, was for an institution which would devote all of its energies to advanced studies. This need dictated the first, and revolutionary, decision in Clark's history, the wisdom of which is now well known to all. This proved to be the stimulus that America needed to push back the frontiers of knowledge. Furthermore, there was no disposition to carry on research in a spirit of aloofness or of remoteness from the concerns of our national life. Our scholars of that day were motivated by a passionate faith that knowledge is power. Each new discovery, no matter how insignificant it may have seemed when viewed as an isolated fact, was nevertheless an important element in that growing intellectual energy without which a nation can make no claim to greatness.

After a dozen years of exclusive concern with research and graduate studies, a second important step was taken. It was decided that after all there was the need for another college, and so the collegiate department was established in 1902. But again Clark was not inclined to follow the established pattern. President Wright, and a group of brilliant young instructors whom he gathered around him, anticipated by forty years some significant ideas with respect to liberal education. They were convinced that lack of financial resources should not stand in the way of higher education for young men of ability. They also advanced the radical notion that a person of college age could be expected to do a man's work, and to accomplish the objectives of a college education in less than the conventional four-year period. In order to make this possible, they cut down the whole extravagant development of extra-classroom activities to sane and useful proportions. Furthermore, in order to compress the full course of study into three years, they were forced to decide what subject matters were a necessary part of every person's education and what method of instruction should be employed. The revolt against the excesses of the elective system and the establishment of a core curriculum were at the heart of Clark College at its very beginning. It is quite natural that members of our faculty who participated in that early experiment have expressed surprise that some of the current criticisms of liberal education are considered novel.

We come now to the third crucial decision. By 1920 there was generous provision for graduate studies in America. The pioneering work of Johns Hopkins and of Clark had produced its effect. At the college level also, experimentation at many institutions had begun. At this point those responsible for Clark's destiny searched their own hearts, they analyzed the field of scholarship, and they assessed the present and future needs of America. As a result of this process, they came to the wise decision that it was time for us to lift the study of geography from the elementary level and make of it a demanding intellectual discipline. The predictive ability of the men who made this decision is all but uncanny. A quarter of a century later there is no one who doubts the strategic importance of the science of geography in the issues of both war and peace. These three great choices have created the Clark of today.

As this story unfolds, bringing us inevitably to 1947, it seems that the logic of our history would demand at this time a fourth decision of epochal significance. The faculty, the trustees, and the alumni join me in accepting this challenge, but we are not yet ready to make a definitive pronouncement as to how we shall meet it. The time has passed when one person or a small group of persons can make effective plans for an entire educational community. Decisions in a democratic community must be group decisions, and the objectives toward which the community aims must be shared by all who participate in the enterprise. To arrive at decisions and to define objectives in this way requires time—more time than we have had thus far to work together.

Although I cannot give a detailed blueprint for the future, I shall attempt to define the area in which lies the greatest need of our day. In so doing, I shall address myself to President Seymour's eloquent and challenging statement of the university's mission. It is difficult to find a figure of speech which will do justice to the perilous condition of mankind, but perhaps a sentence or two borrowed from Herbert Agar will start us in the right direction. "The world," he says, "is not like a well-run drygoods store; it is more like a volcano. But it is a volcano over which we have some control. The fierce tension below the surface can often be kept in equilibrium; it can often be harnessed for the service of man . . . but only if we have sense enough to know that the tension is there. Only if we have learned what blows the roof off the volcano and what tends to keep the roof in place."

Some years ago we may have been justified in comparing the world to a well-run drygoods store. At least we like to think that, in contrast with our present confusion, there was a time when the people who made up our Western civilization were fairly well agreed as to what they wanted. In the absence of a fundamental conflict over aims and purposes, their problem was the rather simple one of finding the ways and means to satisfy their shared desires. They had the job of devising the technical skills which would produce materials necessary for the kind of life they wanted. Our problem today, unfortunately, is not that simple. Our scientific techniques have produced means of frightening power. At many points we have more instruments than we know what to do with. Our problem, therefore, is not the comparatively easy one of finding ways to satisfy our wants; rather, it is the much more complicated one of discovering the proper ends for which we should use the means already available. Do we really sense the potential volcanic action which underlies contemporary civilization? Can we learn what tends to keep the roof in place? And can we learn to harness this power for the service of man and worthy values? All proposals for educational reform seem like playing with toys as compared with the desperate need of fashioning intellectual tools with which to make valid judgments concerning conflicting values.

Recent demonstrations of the destructive possibilities inherent in atomic energy have made vivid the urgency of this problem.

We must realize, however, that the need to which I refer did not have its origin in 1945. Events of the past few years have merely served to focus our attention more sharply upon the problem of values. But, as President Gideonse has pointed out, "All of us by now are a bit frightened by the nihilism that characterized so much of the American intellectual landscape before the war." In the world of scholarship there was such a persistent attitude of skepticism that a host of well-meaning educators hesitated to make any value judgments whatever concerning even the most shocking outrages of barbaric totalitarianism. The theoretical basis for this moral bankruptcy was given expression in a system of thought which argued elaborately that all ideas as to what is good or evil rest upon arbitrary likes and dislikes. It is no mystery that the intelligent college student of 1940 was able to describe with reasonable accuracy the origin and nature of Fascism and to analyze the behavior of America's political system, but that he had no method for judging whether one way of life was better than another or whether one form of society was more valid than its rival. His education had not given him the intellectual tools with which to make judgments as to what ought to be. All of us are now forced to the realization that failure to make accurate judgments concerning the proper use of available power may very well be fatal.

In the face of this realization, many educators insist that descriptive knowledge is not sufficient. They speak about moral education, about transforming the minds and hearts of men, about spiritual commitment, all of which sounds very well. But this sort of thing is usually looked upon as something over and above the main intellectual purpose of the university, and there is a disturbing vagueness as to what this kind of education means.

It may be that we can get some clarification if we state the issue in one of its classical formulations. The man who plays the title role in Plato's "Protagoras" made the claim that as a result of his teaching, his students would be better men and better citizens. In this dialogue, Socrates put the fundamental question when he asked if virtue can be taught; that is, he asked if any teaching can produce better men and better citizens. Socrates seems to have some doubt that political virtue or personal virtue can be taught in any sense analogous to the way specific bodies of knowledge or skills are imparted. His doubt stems from the observation that on technical problems, such as the building of bridges or ships, people are always glad to listen to the judgment of trained specialists. On the other hand, when it comes to political policy, or defining the aims of the state or of human life, people assume that one person has just as much right as another to be heard. In other words, they do not seem to believe that specialists in virtue can be found.

In answer to this objection, Protagoras merely says that the whole community teaches virtue. Ideals are conveyed to the young not by specialized teachers but by the institutions, customs, and all other factors making up the social environment which the youth accepts as a matter of course. Just as one's own language is learned by hearing it spoken day in and day out, so one unconsciously picks up the ideals or values of society. This, as Socrates is quick to point out, is not an adequate answer. Perhaps the Sophist can tell us what the wishes and desires of a given community are, but he does not tell us how to decide on the course of action that we ought to follow. Whatever it is that Protagoras is doing, it is certain that he is not teaching virtue. Socrates really believes that virtue can be taught, but only after a science of good and evil has been developed.

The reason that we are having such a difficult time today working out an effective program of education in values is that the point of view of the modern world is much closer to Protagoras than to Socrates. It is of more than passing interest that

Descartes, who is considered the intellectual father of the modern world, outlined two methods for attacking problems. One of these had to do with knowledge of the world of nature, or what we have come to call scientific knowledge. In forging this method, Descartes was bold and revolutionary. He sketched the outlines of our physical world and proclaimed a method for filling in the details. He was so competent in this that the successive triumphs of the natural sciences have been little more than the fulfillment of his prophecy.

His other method was concerned with man taking part in the practical affairs of life and making choices between good and evil. On this point he had little more to say than that he resolved to obey the laws and customs of his country. Here his method was timid and conventional. The contrast between Descartes' two methods gives us the clue to the dilemma of the modern world. In physical science we have made intelligent progress because we have a method which yields reliable knowledge. In the field of values we have depended on custom, or have fumbled with inadequate adjustments, because we have no method for arriving at valid conclusions.

This contrast has been apparent in the colleges and universities. Our laboratories have been centers for research and have produced startling discoveries. On the other hand, the history of higher education in America shows that we have taken our values and purposes from the social environment. In the fall of 1941, for example, our universities were informed by a set of values which had been influential for some decades. After December 7 of that year it took only a few months for American higher education to shift its basic purpose. This occurred because education borrowed its values from the dominant outlook of the culture in which it lived. It is quite possible that if we had worked on this value problem as we worked on scientific problems we might have come out at the same place. The fact is, however, that we followed the plan which has been typical of the modern world. We merely used those values which we happened to find lying about.

We have a science of nature, but we have no science of good and evil. We have explored the physical world boldly and confidently, but we have been timid and confused in our search for values. Is it any wonder that while modern man has tremendous mastery over nature he has little mastery over himself, and that consequently his present predicament is incredibly grave?

We can afford to rely upon convention for our ideas of good and evil only when two conditions are fulfilled. There must be wide agreement as to what the good life is, and the conception of the good life must be somewhere near the truth. But today it is obvious that there are many conceptions of individual and national virtue, among some of which definite contradictions exist. Within our Western civilization there has occurred a disintegration of the moral cohesion which, in the past, gave it strength and some unity of purpose. There is no commonly accepted good way of life even within our own Western culture, and the problem is clearly complicated by the emergence of Russia and the Far East as important parts of the world community.

The informed and responsible person, in contemplating the possible fate of mankind, trembles as he entertains the hypothesis that we may leave the problem of values to chance. If we go on at the present rate, we shall find that science will produce means of increasing power and that the consequences of this scientific development will be at the mercy of incoherent and irrational habits and desires. If this were the only possibility, then the betting odds would be overwhelmingly against man's survival.

But there are other possibilities. One alternative, frequently proposed, and in a number of guises, is that we should reaffirm a set of values in our tradition and vigorously indoctrinate the youth. Sometimes the appeal is made to the ideals of American civilization and sometimes to the great tradition of Western culture. Now the people who advocate this solution have sensed the problem correctly but they have suggested the wrong cure. They are justified in calling our attention to the confusion created by the existence in our society of conflicting sets of values. Their appeal to tradition, on the other hand, begs the question. They make the false assumption that there is a single tradition. As a matter of fact, the history of the West has been characterized by a series of revolutions bringing about a transvaluation of values. Wisdom would dictate that we use the various strands in our tradition as live hypotheses, but our real job is to find the truth. Merely to affirm arbitrarily one view of the good life fails to solve the problem and may even make the situation worse. The Nazis were able to create a kind of unity within Germany through an effective program of indoctrination. They chose a value scheme which they thought was basic to their Germanic culture. But when they acted on their conception of national destiny they plunged the world into the worst wholesale slaughter of history. This one example is sufficient to demonstrate that mere tradition and indoctrination are not enough.

There is no escape from the Socratic conclusion that the solution of our problem lies in perfecting a science of good and evil. Just as the scientific giants of the seventeenth century forged a method which enabled us to probe the secrets of nature and to get at the sources of untold physical power, so the needs of our day demand that we raise a crop of intellectual giants who will pioneer effectively in developing a science of values.

We must not underestimate the difficulty of this task. Not the least of the difficulties rests in the conviction shared by many scholars that value-judgments are incurably subjective and are therefore not open to rational investigation. The habit of excluding values from the intellectual life is an unfortunate by-product of that very movement of thought which laid the solid foundations for physical science. Galilei and others were persuaded that only those aspects of the world which are mathematical or quantitative in character can be investigated objectively. About these aspects alone, they said, can we have verified knowledge. Everything else, including virtue and the idea of the good life, was relegated to the subjective or to private opinion beyond which there could be no rational appeal. As a result of this dualism, our universities have assumed that there must be a separation of values from the main intellectual purpose of research and teaching. Our first job, then, is to see if this separation is rationally justified. If it is, then it follows that virtue, in the Socratic sense, cannot be taught. If, on the other hand, the common assumption concerning value and fact can be effectively challenged, as I believe it can, then we have removed the first barrier and can go about the business of meeting the most pressing need of the contemporary world.

We shall find that the vast store of knowledge now accumulated will be of great help in fashioning our method for making reliable choices between good and evil. We shall merely put the knowledge to new uses. The natural sciences can be relied upon to furnish information about the concrete physical conditions within which choices must be made. They reveal, furthermore, the conditions which are necessary for the realization of certain values. The science of biology, for example, studies those conditions, relationships and structures which are essential to human health.

History and the social sciences, emancipated from a mistaken conception of objectivity, will be able to recognize that values are central to society. These disciplines will then be prepared to trace the relations between value schemes and to show how they work out in concrete social situations.

The rapidly expanding resources of psychology can be of enormous help in bringing to light existing preferences and conceptions of the good as they are expressed in individual and group behavior. Most people are confused in making choices because they are unclear as to their own standards and the possible conflicts that exist between them. One important contribution that psychology can make in this field is to bring to conscious awareness the deeply rooted attitudes of approval and disapproval.

Concentration on the problem of value will give to the humanities the important place which should be theirs but which they have failed to occupy in recent years. Philosophy, literature and the arts must forever investigate the various possibilities of human life. They must hold before us alternative conceptions of the good and must analyze what is implied when commitment to any one of them is made. Sir Richard Livingstone has said that while literature may be approached in a number of ways, it is essentially "a study, combined with delight, in the art of living, a vision of what is first-rate in human nature and life."

These are some of the ways in which knowledge already available may be focused on the study of good and evil. But beyond all this, new ground must be broken in developing a method which will enable us to investigate systematically the logical structure, implications and consequences of competing views of the good life. I submit that this work must be done, and done successfully, if we are to face the future with confidence.

Clark University helped to show America the path toward graduate studies, and Clark experimented boldly in collegiate education. That same Clark can find in the task of creating a science of values a worthy object for its pioneering spirit.

The Benediction

by

HENRY PITNEY VAN DUSEN

President, Union Theological Seminary

And now, into God's gracious care and protection, we commit you. The Lord bless you and keep you. The Lord make His face to shine upon you and be gracious unto you. The Lord lift up the light of His countenance upon you and give you joy, courage and peace, today and always. Amen.

Delegates of Universities and Colleges

1636 *Harvard University* Dean Paul Herman Buck, Ph.D., LL.D., Litt.D.

1701 *Yale University* President Charles Seymour, Ph.D., Litt.D., L.H.D., LL.D.

1740 *University of Pennsylvania* Jeremiah P. Shalloo, A.M., Ph.D.

1746 *Princeton University* Philip H. Churchman, Ph.D.

1754 *Columbia University* Loring Holmes Dodd, Ph.D.

1764 *Brown University* Dean Samuel Tomlinson Arnold, Ph.D.

1769 *Dartmouth College* Albert S. Carlson, Ph.D.

1773 *Dickinson College* Howard W. Selby, B.Sc.

1780 *Washington and Jefferson College* John O. Morton, B.S.

1787 *University of Pittsburgh* The Reverend Harold J. Ockenga, Ph.D.

1789 *University of North Carolina* Hoosic H. Serunian, M.D.

1791 *University of Vermont* Robert L. Whipple, B.S.

1794 *Bowdoin College* Norman Leslie Munn, Ph.D.

1795 *Union College* President Carter Davidson, Ph.D., LL.D.

1800 *Middlebury College* Paris Fletcher, B.S., LL.B.

1807 *Andover Newton Theological School*
Acting President Vaughan Dabney, D.D.

1809 *Miami University* Spencer B. Montgomery, A.B., LL.B.

1812 *Hamilton College*
President Emeritus Frederick Carlos Ferry, Ph.D., J.U.D., LL.D., Sc.D.

1813 *Colby College* Mrs. Ralph N. Smith, A.M.

1817 *University of Michigan* Arthur John Good, Ph.D.

1819 *Colgate University* Eugene T. Adams, Ph.D.
1819 *University of Virginia* Vernon Jones, Ph.D.
1820 *Indiana University* Jesse Elmer Switzer, Ph.D.
1821 *Amherst College* Charles H. Morgan, Ph.D.
1821 *McGill University* Principal F. Cyril James, Ph.D., LL.D., B.C.L.
1822 *Hobart College* Ralph H. Bullard, Ph.D.
1823 *Trinity College* President G. Keith Funston, M.B.A.
1826 *Lafayette College* Edwin B. Coddington, Ph.D.
1827 *University of Toronto* Richard C. Guest, F.A.S., F.A.I.A.
1831 *Denison University* Kirtley F. Mather, Ph.D., Sc.D., Litt.D., L.H.D.
1831 *New York University* Vice Chancellor Harold O. Voorhis, A.M., LL.D.
1831 *Wesleyan University* Joe Webb Peoples, Ph.D.
1833 *Haverford College* Samuel J. Gummere, B.S.
1833 *Oberlin College* Mrs. Erwin C. Miller, A.B.
1834 *Wheaton College* (Massachusetts) Paul F. Cressey, Ph.D.
1835 *Union Theological Seminary*
President Henry Pitney Van Dusen, Ph.D., D.D., S.T.D.
1837 *Mount Holyoke College*
President Roswell G. Ham, Ph.D., LL.D.
Julia M. Shipman, Ph.D.
1838 *Duke University* William Richard Tongue, Ph.D.
1838 *Acadia University* Alden Benjamin Dawson, Ph.D., Sc.D.
1839 *Boston University*
President Daniel L. Marsh, Ph.D., L.H.D., D.C.L., LL.D.
1843 *College of the Holy Cross*
The Very Reverend William J. Healy, S.J., Ph.D., S.T.L.
1844 *Hillsdale College* Casper L. Rowe, B.D.
1846 *The University of Buffalo* Kenneth A. Senter, D.D.S.
1846 *Bucknell University* The Reverend Frederick W. Rapp, B.D.

1847 *The State University of Iowa* Clyde O. Ruggles, Ph.D., Litt.D.

1848 *University of Wisconsin* Wilbur B. Bridgman, Ph.D.

1851 *Northwestern University* Homer A. Smith, D.D.S.

1852 *Tufts College*
President Leonard Carmichael, Ph.D., Sc.D., LL.D., Litt.D.
Harold Hooper Blanchard, A.M., Ph.D.

1855 *The Pennsylvania State College* George C. Carlson, B.S.

1856 *The St. Lawrence University*
President Eugene Garrett Bewkes, B.D., Ph.D., LL.D.

1860 *Wheaton College* (Illinois) President V. Raymond Edman, Ph.D., LL.D.

1861 *Massachusetts Institute of Technology*
Dean Everett Moore Baker, B.S., D.D.

1863 *Boston College* The Very Reverend William L. Keleher, S.J., S.M., S.T.L.

1863 *Massachusetts State College*
President Hugh Potter Baker, M.F., D.Oec., LL.D.

1864 *Bates College* President Charles F. Phillips, Ph.D., LL.D.

1864 *Swarthmore College* Joel M. Melick, M.D., F.A.C.S.

1865 *Cornell University* Ethel W. Plimpton, Ph.D.

1865 *Lehigh University* Arthur Calvin Frey, M.E.

1865 *University of Maine* Charles F. Virtue, Ph.D.

1865 *Worcester Polytechnic Institute* Dean Jerome W. Howe, B.S., Eng.D.

1866 *University of Kansas* Edmund P. Learned, A.M., M.B.A., D.C.S.

1866 *University of New Hampshire* President Harold W. Stoke, Ph.D., LL.D.

1867 *Episcopal Theological School* Gordon Stephen Price, A.B.

1867 *University of Illinois* W. Elmer Ekblaw, Ph.D.

1868 *Wells College* Dean Evelyn C. Rusk, Ph.D.

1869 *University of Nebraska* George W. Ballantyne, M.D.

1870 *Wellesley College* President Mildred McAfee Horton, LL.D., L.H.D.

1870 *Syracuse University* George B. Cressey, Ph.D.

1871 *Smith College* Mrs. Lowell H. Milligan, A.B.

1871 *Worcester State Teachers College*
President Eugene A. Sullivan, M.A., M.S.

1876 *The Johns Hopkins University* Homer P. Little, Ph.D.

1879 *Radcliffe College* Dean Wilma A. Kerby-Miller, Ph.D.

1881 *The University of Connecticut* President A. N. Jorgensen, Ph.D., LL.D.

1881 *The University of Texas* Herman A. Brautigam, LL.B., B.D., Ph.D.

1885 *Bryn Mawr College* Eleanor L. Little Aldrich, A.B.

1885 *Goucher College* Jeannette H. Campbell, A.B.

1885 *Springfield College* President Paul M. Limbert, B.D., Ph.D., LL.D.

1885 *Stanford University* Edwin W. Hadley, J.D., LL.M.

1887 *The Catholic University of America* Vincent McBrien, Ph.D.

1891 *University of Chicago* Kirtley F. Mather, Ph.D., Sc.D., Litt.D., L.H.D.

1892 *Rhode Island State College*
President Carl Raymond Woodward, Ph.D., Litt.D., Sc.D.

1893 *Upsala College* President Evald Benjamin Lawson, Th.D.

1898 *Northeastern University* Dean Wilfred S. Lake, Ph.D.

1899 *Simmons College* Vice President Joseph Garton Needham, Ph.D.

1911 *Connecticut College* Richard F. Logan, A.M.

1917 *Assumption College* The Reverend Armand Desautels, Ph.D.

1926 *Sarah Lawrence College* Mrs. John B. McKittrick, A.B.

1944 *The Worcester Foundation for Experimental Biology*
Hudson Hoagland, Ph.D., Sc.D.

1946 *Massachusetts State College at Fort Devens*
Vice President Edward Hodnett, Ph.D.

Delegates of Learned Societies and Educational Organizations

1812 *American Antiquarian Society* Clarence S. Brigham, Litt.D.

1837 *Massachusetts Department of Education* Commissioner John J. Desmond, Jr., A.M.

1852 *American Geographical Society* Samuel Van Valkenburg, Ph.D.

1859 *Worcester Free Public Library* Thurston Taylor, A.B., B.S.

1883 *Modern Language Association of America* George Sherburn, Ph.D., L.H.D.

1884 *American Historical Association* Sidney B. Fay, Ph.D., L.H.D., Litt.D.

1885 *New England Association of Colleges and Secondary Schools* George S. Miller, A.M., Litt.D.

1863 *National Academy of Sciences* J. C. Hunsaker, Sc.D., Eng.D.

1876 *American Chemical Society* Walter S. Ritchie, Ph.D.

1892 *American Psychological Association* Roger G. Barker, Ph.D.

1897 *Worcester Art Museum* Charles H. Sawyer, B.A.

1900 *American Philosophical Association* Herman A. Brautigam, LL.B., B.D., Ph.D.

1900 *Association of American Universities* Paul Herman Buck, Ph.D., LL.D., Litt.D.

1904 *Association of American Geographers* Charles F. Brooks, Ph.D.

1915 *Association of American Colleges* Rear Admiral (Ret.) Wat Tyler Cluverius, B.S.

1918 *American Council on Education* Thomas F. Power, A.B.

Inauguration Committees

W. Elmer Ekblaw, *General Chairman*

INVITATION

Francis Henshaw Dewey, III
Homer P. Little
Paul F. Marble
Loring Holmes Dodd, *Chairman*

PROGRAM

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Samuel Van Valkenburg
H. Donaldson Jordan, *Chairman*

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Lester W. Parker
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Carl E. Wahlstrom
M. Hazel Hughes
J. Fannin King
Rudolph F. Nunnemacher
Henry J. Warman
David Potter, *Chairman*

DECORATIONS

Guy H. Burnham
Jesse L. Bullock, *Chairman*

PUBLICATIONS

Robert H. Brown
N. Orwin Rush, *Chairman*

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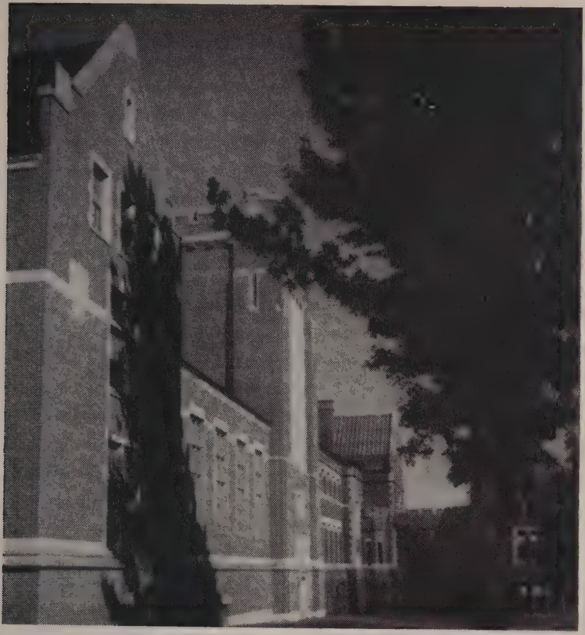
CLARK UNIVERSITY

WORCESTER, MASSACHUSETTS



Summer Term
1947

For students already in college who wish to proceed with utmost speed toward completion of their course.

For teachers or other adults who desire further undergraduate or graduate training.

SUMMER TERM CALENDAR

First Session

June 2—Registration
June 3—Classwork begins, 7:50 A M
July 4—Independence Day, a holiday
July 10 and 11—Examinations

Second Session

July 14—Registration
Aug. 21 and 22—Examinations
Aug. 22—Commencement, 5 P M

SUMMER TERM FACULTY

All are from the Staff of Clark University

Howard B. Jefferson, Ph.D.
President of the University and Professor of Philosophy.

Homer P. Little, Ph.D.
Dean of the College and Professor of Geology.

Karl O. E. Anderson, Ph.D.
Assistant Professor of English.

Henry M. Bosshard, Ph.D.
Professor of German.

Samuel J. Brandenburg, Ph.D.
Professor of Economics and Sociology.

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Franklin P. Hall, Ph.D.
Associate Professor of Economics and Sociology

George E. Hargest, M.Ed.
Assistant Professor of Economics and Business Administration.

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Assistant Professor of International Relations.

M. Hazel Hughes, B.Ed.
Director of Student Activities of the Women's College.

Robert S. Illingworth, M.A., B.D.
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Vernon Jones, Ph.D.
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Donald MacGillavry, Jr., Ph.D.
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Arthur E. Martell, Ph.D.
Associate Professor of Chemistry.

Richard B. Martin, M.A.
Instructor in Chemistry.

Carey E. Melville, A.B.
Professor of Mathematics.

Howard K. Moore, M.A.
Instructor in English.

Theodore Nicol, Ph.D.
Visiting Professor of Romance Languages.

Rudolph F. Nunnemacher, Ph.D.
Associate Professor of Biology.

Philip M. Palmer, Ph.D.
Associate Professor of German.

Lester W. Parker, A.B.
Visiting Instructor in English.

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Professor of Biology.

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CREDITS, COSTS, AND LIVING ACCOMMODATIONS

Each subject carried for six weeks yields credit of one-half course (three semester hours). Two subjects for twelve weeks constitute a normal program and yield credit of two courses (twelve semester hours).

The tuition for the normal program for the entire summer term of twelve weeks is $120.00; for less than a full program the charge is $30.00 per subject per six-week session. In addition there is a matriculation fee of $5.00 for students entering for the first time to be paid at the time of registration. A laboratory fee of $5.00 per session is charged for each laboratory course. Students enrolled in laboratory courses in chemistry also make a special deposit for breakage. Tuition and laboratory fees are due at the Bursar's office not later than Saturday noon of the first week of each session.

Dormitory facilities, especially for women, are somewhat limited. Reservations should be made promptly. A deposit of $10.00 is required to reserve a room. This deposit, less a charge of $1.00 per session for light, is returnable if the room is left in good order. Rooms for women range in price from $3.50 to $5.00 per week, depending upon the location of the room; rooms for men cost $5.00 per week. Room rent is payable in advance at the opening of each session.

COURSES

F indicates a course open to freshmen; *a* after the number indicates a course offered in the first session only; *b* indicates a second session course; absence of a letter following the number indicates a course extending through both sessions. Credit is not granted for a course designated as indivisible unless it is carried through both sessions. Courses whose numbers begin with *2* are open only to juniors, seniors and graduate students; courses whose numbers begin with *3* are for graduate students only.

GRADUATE COURSES

Graduate students formally registered in the summer term may, with the approval of their major department, enroll in thesis courses under the direction of regular members of the staff other than those listed in the present bulletin.

Courses beginning with *2* or *3* are acceptable for credit toward a graduate degree when approved in advance by the student's major department.

Undergraduate and Graduate Courses

BIOLOGY

F S.T. 11. General Biology. An introduction to the fundamental principles and problems of biology. The first six weeks will deal with zoological aspects, while the second six weeks will treat the botanical field (with Mr. Potter). Divisible with the approval of the instructor.
Daily, except Saturday, at 7:50; lab. M.Th., at 2:00.
Mr. Nunnemacher and Mr. Potter

S.T. 17a. Embryology. A comprehensive course dealing with vertebrate development.
Daily, except Saturday, at 9:00; lab. T.Th.F., at 2:00.
Mr. Nunnemacher

S.T. 18b. Genetics. An introduction to the principles of genetics.
Daily, except Saturday, at 9:00. Mr. Potter

BUSINESS ADMINISTRATION

S.T. 17. Public Speaking. The principles of public speaking in the more practical and familiar types of address that prevail today. In addition, the course will include Parliamentary procedure, discussion groups, problems in human relations, and vocabulary drill. Indivisible.
Daily, except Saturday, at 10:10. Mr. Illingworth

S.T. 18. Business Organization and Finance. A unified year course in the financial structure of modern industry. Emphasis is placed on the nature of the business corporation, its financial practices, and the problems of internal financial control. Indivisible.
Daily, except Saturday, at 11:20. Mr. Lucas

S.T. 127. Intermediate Accounting. A study of the difficulties encountered in actual accounting practice, and the theoretical considerations that govern in distinguishing sound from unsound policies in the determination of valuations, reserves, classifications of profit-and-loss items, and allocation as between accounting periods, etc. Indivisible.
Daily, except Saturday, at 7:50. Mr. Hargest

S.T. 181a. Industrial Management. A study of the techniques of executive control and the measures of managerial efficiency pertaining particularly to production control, standardization of operations, purchasing, inventories, selling, and budgeting.
Daily, except Saturday, at 9:00. Mr. Hargest

S.T. 182b. Office Management. A survey of the principles of office procedure and management with special emphasis upon office organization and planning, departmental organization, standardization of equipment and methods, employee selection and training, office forms, office costs and budgets, and correspondence.
Daily, except Saturday, at 9:00. Mr. Hargest

(See also History 12b, American Government.)

CHEMISTRY

F S.T. 11. General Chemistry. Chiefly inorganic. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of chemistry. Indivisible.
Daily, except Saturday, at 10:10; lab. T.W.F., at 2:00.
Mr. MacGillavry

S.T. 12a. Qualitative Analysis. Chiefly laboratory work, fifteen hours per week. Occasional lectures and recitations. Prerequisite course 11.
Daily, except Saturday, at 2:00. Mr. Martin

S.T. 13a. Chemical Principles. A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium. Prerequisite, Chemistry 11 and 12.
Daily, except Saturday, at 9:00. Mr. Martin

S.T. 14b. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Twelve hours of laboratory work, and one lecture per week. Prerequisite, course 12.
Daily, except Saturday, at 2:00. Mr. Martin

S.T. 15. Elementary Organic Chemistry. Lectures on the fundamental principles of organic chemistry. Prerequisite, a grade of C— or better in course 11, or its equivalent. Indivisible.
Daily, except Saturday, at 11:20. Mr. Martell and Mr. Martin

S.T. 110a. Organic Synthesis and Analysis. Laboratory work in the preparation of typical organic compounds. Course 110 should be taken, if possible, in connection with course 15. Fifteen hours of laboratory work per week. Open only to students who take or have taken courses 12, 14 and 15.
Daily, except Saturday, at 2:00. Mr. Martell

ECONOMICS

S.T. 11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life. Indivisible.
Daily, except Saturday, at 10:10. Mr. Brandenburg and Mr. Hall

S.T. 22. Labor Problems. A study of the development of worker and employer organizations, collective bargaining, industrial disputes and methods of prevention and settlement. The second semester is devoted largely to the study of legislative control of industrial relationships and the Social Security program. Divisible with consent of the instructor.
Daily, except Saturday, at 7:50. Mr. Brandenburg and Mr. Hall

S.T. 26. Government and Industry. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads. Indivisible.
Daily, except Saturday, at 10:10. Mr. Lucas

EDUCATION

S.T. 205b. The Teaching of English. Methods of teaching poetry, drama, novel, short story, oral and written composition.
Daily, except Saturday, at 7:50. Mr. Parker

S.T. 208b. Principles and Methods in Education for Citizenship. A survey of the aims, responsibilities, and general methods in secondary education.
Daily, except Saturday, at 11:20. Mr. Jones

S.T. 214b. Tests and Measurements Applied to Guidance. The use of tests and measurements in student evaluation and in educational and vocational guidance.
Daily, except Saturday, at 9:00. Mr. Jones

(See Geography S.T. 20b for Geography in Education)

ENGLISH

S.T. 12. Public Speaking. A course in the composition and delivery of the most commonly used types of speeches, parliamentary procedure, discussion groups, and vocabulary drill. This course is for those not majoring in Business Administration. Indivisible except that admissions for the second session only will be considered.
Daily, except Saturday, at 9:00. Mr. Illingworth

S.T. 13b. Shakespeare. A study of twelve plays. Collateral reading with emphasis on the social and intellectual background of the Elizabethan period.
Daily, except Saturday, at 10:10. Mr. Anderson

S.T. 16a. Advanced Composition. A critical study of the literary techniques of narration, description, argumentation, and exposition. Free writing under direction. May be taken only with the consent of the instructor.
Daily, except Saturday, at 11:20. Mr. Moore

S.T. 111b. A Survey of American Literature. American literature from Puritan times to 1890, with the main emphasis on the nineteenth century.
Daily, except Saturday, at 11:20. Mr. Anderson

S.T. 117a. Romantic Poetry. Wordsworth, Coleridge, Byron, Shelley, and Keats, with a consideration of the intellectual background of their time. Lectures and assigned readings.
Daily, except Saturday, at 10:10. Mr. Moore

FRENCH

F S.T. 12. Intermediate. A review of grammar, exercises in composition and pronunciation, and extensive reading in a variety of modern texts. Prerequisite: French 11 or the equivalent in high school French, depending on the result of a placement test. Indivisible.
Daily, except Saturday, at 9:00.
Mr. Nicol and Miss Wawrzyniak

F S.T. 14. Readings in French Literature. The aim of French 14 is twofold: the attainment of facile reading ability and a general view of French literature since 1600 based upon a detailed study of ten works of representative authors. Prerequisite: French 12 or the equivalent in high school French, depending on the result of a placement test.
Daily, except Saturday, at 10:10.
Mr. Nicol and Miss Wawrzyniak

GEOGRAPHY

F S.T. 10. Principles of Geography. First session: An introductory course dealing primarily with the physical phases of geography. Second session: Application of the principles of geography to the study of selected regions throughout the world. Divisible.
Daily, except Saturday, at 9:00. Mr. Warman

F S.T. 191. Cartography. A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or doing illustrative work. Divisible.
Daily, except Saturday, at 11:20. Mr. Burnham

S.T. 20b. Geography in Education. A workshop in geography, focusing attention on needs and problems of secondary school geography.
M.W., 1:30 to 3:30; Th., 1:30 to 2:30. Mr. Warman

S.T. 27b. Cultural Geography. A summary of the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.
Daily, except Saturday, at 9:00. Mr. Ekblaw

S.T. 282a. Geography of North America. A systematic regional treatment of the physical, economic, and cultural geography of North America. Open to sophomores with consent of the instructor.
Daily, except Saturday, at 10:10. Mr. Warman

S.T. 283b. Geography of South America. Analysis of the major geographic regions of South America; special geographic problems of South American governments and peoples. Open to sophomores with consent of the instructor.
Daily, except Saturday, at 10:10. Mr. Warman

S.T. 286b. Geography of Pacific Asia. A geographical interpretation of the countries bordering the Pacific from the Malay Peninsula to the Bering Strait.
Daily, except Saturday, at 10:10. Mr. Van Valkenburg

S.T. 32b. Regional Climatology. A study of the climates of the world by major regional examples.
Daily, except Saturday, at 7:50. Mr. Van Valkenburg

S.T. 33b. Soil Geography. A review of the development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Daily, except Saturday, at 11:20. Mr. Ekblaw

GERMAN

F S.T. 12. Intermediate German (Second Year). Reading, translation, review of grammar essentials, exercises in composition and pronunciation. Prerequisite: German 11 or two years of high school German.
Daily, except Saturday, at 11:20.
Mr. Bosshard and Mr. Palmer

F S.T. 13. Reading in German Literature (Third Year). Introduction of the student to a few of the outstanding works of German literature. Additional readings in the social sciences. Exercises in composition. Prerequisite: German 12, 123 or its equivalent.
Daily, except Saturday, at 9:00. Mr. Bosshard and Mr. Palmer

HISTORY

F S.T. 10a. History of Political Institutions in the United States. A survey of the influences that have shaped our national political development, with emphasis upon the historical evolution of the party system and the powers of the President, Congress, and the Supreme Court. Designed as an introduction to History 12b.
Daily, except Saturday, at 10:10. Mr. Campbell

F S.T. 12b. American Government. A study of the structure and functions of American Government with some attention to the problems of modern administration.
Daily, except Saturday, at 10:10. Mr. Hayden

S.T. 23b. American Diplomatic History. The history of the foreign relations of the United States from 1783 to the present.
Daily, except Saturday, at 9:00. Mr. Hayden

S.T. 242a. The United States in the Twentieth Century. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Daily, except Saturday, at 11:20. Mr. Campbell

MATHEMATICS

S.T. 12. Second Year Course. Analytical geometry, introduction to differential and integral calculus. Required of majors in chemistry, physics, and mathematics.
Daily, except Saturday, at 7:50. Mr. Melville

S.T. 13. Calculus and Differential Equations. Advisable for majors in chemistry and physics. Divisible.
Daily, except Saturday, at 10:10. Mr. Melville

PSYCHOLOGY

(See Education for additional second session courses)

S.T. 11. General Psychology. An introduction to the principles of human behavior. Lectures and class discussion.
Daily, except Saturday, at 10:10. Mr. Brown

S.T. 212a. Experimental Psychology. A general survey of experimental psychology involving detailed experience with laboratory apparatus. Problems of sensation and perception will be stressed. An introductory course in psychology is prerequisite. Lectures and laboratory work.
Daily, except Saturday, 1:00 - 3:00. Mr. Brown

SPANISH

F S.T. 12. Intermediate. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America. Prerequisite Spanish 11 or the equivalent in high school Spanish, depending on the result of a placement test. Indivisible.
Daily, except Saturday, at 9:00. Mr. Reid and Mr. King

F S.T. 14. Readings in Spanish and Spanish-American Literature. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and a general knowledge of outstanding Spanish and Spanish-American authors. Prerequisite: Spanish 12 or the equivalent in high school Spanish, depending on the result of a placement test.
Daily, except Saturday, at 10:10. Mr. Reid and Mr. King

For further information address

The Dean of the College

CLARK UNIVERSITY BULLETIN
Number 179 January 1947
This Bulletin is published in January, March, September, October

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Clark University Bulletin

NUMBER 180 MARCH, 1947

CATALOGUE NUMBER

WORCESTER, MASSACHUSETTS

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Heffernan Press
May 15, 1947

Clark University Bulletin

CATALOGUE NUMBER

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Calendar

The academic year begins on the Monday before the fourth Thursday in September and ends thirty-five weeks later, near the end of May. It includes two semesters of sixteen weeks each and two vacation periods;—two weeks including Christmas Day and New Year's Day, and a week near the first of April.

The first semester ends on the Saturday before the nineteenth Monday and the second semester begins on the nineteenth Monday of the academic year.

The Summer term begins about one week after the end of the regular academic year and continues for twelve weeks. The summer term is divided into two sessions of six weeks each.

1946

Sept. 23	Monday	Beginning of academic year.
Oct. 12	Saturday	Columbus Day. A holiday.
Oct. 31	Thursday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1947.
Nov. 11	Monday	Armistice Day. Not a holiday.
Nov. 16	Saturday	Mid-semester reports.
Nov. 27	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Dec. 2	Monday	End of Thanksgiving recess at 8 A.M.
Dec. 18	Wednesday	Beginning of Christmas recess at 5 P.M.

1947

Jan. 2	Thursday	End of Christmas recess at 8 A.M.
Jan. 13	Monday	Beginning of semester examination period.
Jan. 25	Saturday	End of first semester.
Jan. 27	Monday	Beginning of second semester.
Feb. 1	Saturday	Last day for receiving applications for admission to candidacy for the Degree of Master of Arts in June 1947.
Feb. 6	Thursday	Last day for payment of term bills.
Feb. 22	Saturday	Washington's Birthday. A holiday.
Mar. 22	Saturday	Mid-semester reports.
Mar. 29	Saturday	Beginning of spring recess at 1 P.M.
Apr. 7	Monday	End of spring recess at 8 A.M.
Apr. 19	Saturday	Patriot's Day. Not a holiday.
May 1	Thursday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May 10	Saturday	M.A. Theses due at Recorder's Office at 9 A.M.
May 12	Monday	Beginning of semester examination period.
May 24	Saturday	End of academic year.
May 25	Sunday	Commencement Day.
June 2	Monday	Beginning of first session of summer term. Registration day.
July 4	Friday	Fourth of July. A holiday.
July 11	Friday	End of first session of summer term.
July 14	Monday	Beginning of second session of summer term. Registration day.
Aug. 22	Friday	End of summer term. Conferring of degrees.

Sept. 22	Monday	Beginning of academic year 1947-48.
Oct. 2	Thursday	Last day for payment of term bills.
Oct. 13	Monday	Columbus Day. A holiday.
Oct. 31	Friday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1948.
Nov. 11	Tuesday	Armistice Day. Not a holiday.
Nov. 15	Saturday	Mid-semester reports.
Nov. 26	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Dec. 1	Monday	End of Thanksgiving recess at 8 A.M.
Dec. 20	Saturday	Beginning of Christmas recess at 1 P.M.
1948		
Jan. 5	Monday	End of Christmas recess at 8 A.M.
Jan. 12	Monday	Beginning of semester examination period.
Jan. 24	Saturday	End of first semester.
Jan. 26	Monday	Beginning of second semester.
Jan. 31	Saturday	Last day for receiving applications for admission to candidacy for the Degree of Master of Arts in June 1948.
Feb. 5	Thursday	Last day for payment of term bills.
Feb. 22	Monday	Washington's Birthday.
Mar. 13	Saturday	Mid-semester reports.
Apr. 3	Saturday	Beginning of spring recess at 1 P.M.
Apr. 12	Monday	End of spring recess at 8 A.M.
Apr. 19	Monday	Patriot's Day. Not a holiday.
May 1	Saturday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May 10	Monday	Beginning of semester examination period. M.A. Theses due at Recorder's Office at 9 A.M.
May 22	Saturday	End of academic year.
May 23	Sunday	Commencement Day.
Sept. 20	Monday	Beginning of academic year 1948-49.

BOARD OF TRUSTEES

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

George H. Mirick (1920), President	Worcester, Mass.
Leon E. Felton (1930), Secretary	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936)	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice- President	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI

Raymond T. Gifford (1943) for four years, Treasurer
Thomas L. Patterson (1944) for four years
Clarence P. Shedd (1945) for four years
Archibald M. Hillman (1946) for four years

ADMINISTRATION

President of the University	Howard Bonar Jefferson
Dean of the College	Homer P. Little
Librarian	N. Orwin Rush
Director of Physical Education	Ernest Raymond Whitman
Director of Student Activities in the Women's College and Director of Physical Education for Women	M. Hazel Hughes
Medical Director for Men	Michael B. Fox, M.D.
Medical Director for Women	Constance Kaliris, M.D.
Recorder	Lydia P. Colby
Bursar	Mary A. Hubbard

Faculty

(Listed in order of academic seniority within each rank)

HOWARD BONAR JEFFERSON, PH.D. 160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929.

HOMER PAYSON LITTLE, PH.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

WALLACE WALTER ATWOOD, PH.D., SC.D. 21 Otsego Rd.
President, Professor of Physical and Regional Geography, and Director of the Graduate School of Geography, 1920-1946. President Emeritus.

BENJAMIN SHORES MERIGOLD, PH.D., SC.D. 17 Charlotte St.
Professor of Chemistry, 1908-1946. Professor Emeritus.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.
Professor of Romance Languages, 1911-1944. Professor Emeritus.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.
Professor of Greek and Latin, 1912-1946. Professor Emeritus.

LEROY ALLSTON AMES, A.M.
Professor of English Literature, 1915-1944. Professor Emeritus.

WILLIAM HOMER WARREN, PH.D.
Professor of Organic Chemistry, 1925-1937. Professor Emeritus.

DOUGLAS CLAY RIDGLEY, PH.D.
Professor of Geography in Education, 1927-1937. Professor Emeritus.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.
Professor of Rhetoric. Curator of Art.
A.B., Dartmouth College, 1900; A.M., Columbia University, 1901; Ph.D., Yale University, 1907. Instructor, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20; Professor since 1920.

SAMUEL J. BRANDENBURG, PH.D. 173 Woodland St.
Professor of Economics and Sociology since 1923.
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922.

WALTER ELMER EKBLAW, PH.D. 11 Wheeler Rd., N. Grafton, Mass.
Professor of Geography.
A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Associate Professor, 1926-28; Professor since 1928.

*GEORGE HUBBARD BLAKESLEE, Ph.D., L.H.D., D.Eng., LL.D.
Professor of History and International Relations

#Absent on leave, 1946-47

JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Professor of Chemistry and Director of the Chemical Laboratories.
A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

JAMES ACKLEY MAXWELL, PH.D. 69 Hillcroft Ave.
Professor of Economics.
A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.
Professor of Geography. Director of the Graduate School of Geography.
Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.
Professor of Dramatic Art. Alumni Secretary.
A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

VERNON JONES, PH.D. 267 Salisbury St.
Professor of Educational Psychology.
A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.
Professor of English History.
A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925; Associate Professor, 1931-38; Professor since 1938 (February).

DWIGHT ERWIN LEE, PH.D. 3 Woodman Road
Professor of Modern European History.
A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

ARTHUR FLETCHER LUCAS, PH.D. 54 Morningside Rd.
Professor of Economics. Director of the Division of Business Administration.
A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor, 1929-38; Professor since 1938 (February).

David Potter, Ph.D. 113 South St., Auburn, Mass.
Professor of Biology.
B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professor, 1933-38; Professor since 1938 (February).

Charles H. Sawyer Director, Worcester Art Museum
Professor (Affiliate) of Fne Arts since 1942.

Carey Eyster Melville, A.B. 16 Isabella St.
Professor of Mathematics.
A.B., Northwestern University, 1901. Assistant in Mathematics, 1906-09; Instructor, 1909-11; Assistant Professor, 1911-18; Associate Professor, 1918-43; Professor since 1943. Registrar, 1914-32.

Percy Martin Roope, Ph.D. 2 Lovell Drive
Professor of Physics.
A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

Henry Morant Bosshard, Ph.D. 10 Shaffner St.
Professor of German.
Ph.D., University of Zürich, 1919; M.Ed., Harvard University, 1921. Assistant Professor, 1927-32; Associate Professor, 1932-43; Professor since 1943.

*David Mitchell Dougherty, Ph.D. 5 Columbine Rd.
Professor of Romance Languages.
A.B., University of Delaware, 1925; A.M., Harvard University, 1927; Ph.D., 1932. Assistant Professor, 1931-40; Associate Professor, 1940-1945; Professor since 1945 (February).

Roger Gaylock Barker, Ph.D.
163 Prospect St., W. Boylston, Mass.
Granville Stanley Hall Professor of Genetic Psychology since 1946 (Feb.).
A.B., Stanford University, 1928; A.M., 1932; Ph.D., 1934.

Raymond Edward Murphy, Ph.D. 5 Columbine Rd.
Professor of Economic Geography since 1946.
B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., University of Wisconsin, 1930.

Wallace Walter Atwood, Jr., Ph.D.
Visiting Professor of Physiography and Regional Geography, 1946-47.
B.S., University of Chicago, 1926; A.M., Clark University, 1927; Ph.D., 1930; Associate Professor 1940-46.

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*Absent on leave 1946-47.

THEODORE NICOL, PH.D. 10 Circuit Ave.
Visiting Professor of Romance Languages, 1946-47.
A.B., Clark University, 1926; A.M., Harvard University, 1928; Ph.D., 1933.

CHARLES B. FAWCETT, D.SC.
Visiting Professor of Geography, 1946-47 (Second semester).
B.Sc., Nottingham College, 1908; B.Litt., Oxford University, 1913; D.Sc., University of London, 1925. Professor of Geography, University of London and Head of the Department of Geography, University College, London, since 1928.

ROBERT HEATH BROWN, PH.D. 193 Lovell St.
Associate Professor of Experimental Psychology.
A.B., Wesleyan University, 1932; A.M., Clark University, 1933; Ph.D., 1935. Assistant Professor, 1937-44; Associate Professor since 1944.

RUDOLPH FINK NUNNEMACHER, PH.D. 28 Copperfield Rd.
Associate Professor of Biology.
B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944.

JOHN ELDERKIN BELL, ED.D. 117 Forest St.
Associate Professor of Psychology since 1944.
B.A., University of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

NIXON ORWIN RUSH, M.S. 11 Woods Avenue
Librarian. Associate Professor of Bibliography, 1945-1947 (April).
A.B., Friends University, 1931; B.S., Columbia University, 1932; M.S., 1945.

PAUL FRANCIS MARBLE, A.M. Princeton, Mass.
Associate Professor of English.
Ph.B., Brown University, 1930; A.M., 1933. Instructor in English 1939-44; Assistant Professor 1944-46; Associate Professor since 1946 (January).

ARTHUR EARL MARTELL, PH.D. 17 Hapgood Way, Shrewsbury
Associate Professor of Chemistry.
B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941; Assistant Professor, 1942-46; Associate Professor since 1946 (January).

FRANKLIN PORTER HALL, PH.D. 30 May St.
Associate Professor of Economics and Sociology since 1946.
B.A., University of Oregon, 1929; M.A., University of Wisconsin, 1931; Ph.D., 1945.

DONALD MACGILLAVRY, JR., PH.D. 1133 Pleasant St.
Associate Professor of Chemistry since 1946.
Cand., University of Amsterdam, 1923; Docts., University of Amsterdam, 1928; Ph.D., Columbia University, 1933.

PHILIP MOTLEY PALMER, PH.D. 46 Tory Fort Lane
Associate Professor of German since 1946.
A.B., Bowdoin College, 1926; A.M., Harvard University, 1927; Ph.D., 1930.

ELIOT HERMAN RODNICK, PH.D. Worcester State Hospital
Associate Professor (Affiliate) of Abnormal Psychology.
B.A., Yale University, 1933; Ph.D., 1936. Visiting Lecturer, 1942-43; Assistant Professor (Affiliate) 1943-46; Associate Professor (Affiliate) since 1946.

HERBERT P. BARNETT
Associate Professor (Affiliate) of Fine Arts since 1946.
Head of Department of Drawing, Painting and Sculpture, School of the Worcester Art Museum.

RICHARD JEWETT LOUGEE, PH.D.
Associate Professor of Physiography since 1947 (January).
B.S., Dartmouth College, 1927; A.M., University of Michigan, 1929; Ph.D., Columbia University, 1938.

GEORGE EDWARD HARGEST, M.ED. 150 Woodland St.
Assistant Professor of Economics and Business Administration since 1942.
B.S., Temple University, 1933; M.Ed., 1937.

ROY CHALMERS GUNTER, PH.D. Dodge, Mass.
Assistant Professor of Physics.
B.S., Bowdoin College, 1938; A.M., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics, 1941 (February) - 1943; Assistant Professor of Physics since 1943.

HENRY JOHN WARMAN, PH.D. 3 Sun Valley Drive
Assistant Professor of Geography.
B.S., in Ed., Bloomsburg State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44 and since 1945.

J. RICHARD REID, PH.D. 921 Main St., Leicester, Mass.
Assistant Professor of Romance Languages since 1944.
A.B., Swarthmore College, 1935; A.M., Harvard University, 1936; Ph.D., 1943.

KARL OSCAR EMANUEL ANDERSON, PH.D. 138 Woodland St.
Assistant Professor of English since 1945.
A.B., Harvard, 1927; A.M., 1928; Ph.D., 1942.

BEVERLY HOSBROOK BOWMAN, M.S. 508 Grove St.
Assistant Professor of Economics and Business Administration since 1946.
B.S., Northeastern State College (Oklahoma), 1937; M.S., Oklahoma Agricultural and Mechanical College, 1939.

ROBERT FRANCIS CAMPBELL, A.M. 100 Woodland St.
Assistant Professor of American History since 1946.
A.B., Yale University, 1939; A.M., Columbia University, 1940.

OWEN FRANCE, B.S. 7 Laconia Rd.
Assistant Professor of Biology since September, 1946.
B.S., St. Lawrence University, 1937.

THOMAS QUINLEVAN GILSON, M.A. 15 Sunnyhill Drive
Assistant Professor of Psychology since 1946, and Associate Director of Veteran's Administration Guidance Center.
A.B., Princeton University, 1938; M.A., Columbia University, 1942.

SHERMAN STRONG HAYDEN, PH.D. 68 Moore Ave.
Assistant Professor of International Relations since 1946.
A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942.

J. FANNIN KING, A.M. Estabrook Hall
Assistant Professor of Romance Languages since 1946.
A.B., Pomona College, 1936; A.M., Harvard University, 1937.

WILLIAM SELF 1 Oak St.
Instructor in Music since 1945.
Director of Glee Clubs.

DONALD HENRY LETENDRE, A.M. IN ED.
29 Church St., Spencer, Mass.
Instructor in English since 1946 (January).
A.B., Clark University, 1938; A.M. in Ed., 1939.

GUY HARVEY BURNHAM, A.M. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916.

ROBERT SANFORD BOOTH, M.S. 2 State Street
Instructor in Sociology since 1946.
B.A., State College of Washington, 1940; M.S., Boston University, 1946.

Richard Blazo Martin, A.M. 7 Forestdale Rd.
Instructor in Chemistry since 1946.
A.B., Clark University, 1939; A.M., 1940.

Howard Kimball Moore, A.M. Cook St., Morningdale, Mass.
Instructor in English since 1946.
A.B., Boston University, 1939; A.M., 1940.

Chester Cushing Stone, B.S. 18 High St., Spencer, Mass.
Instructor in Mathematics since 1946.
B.S., Massachusetts State College, 1942.

Loretta Anne Wawrzyniak, A.M.
20 N. Main St., Webster, Mass.
Instructor in Romance Languages since 1946.
A.B., Clark University, 1945; A.M., Radcliffe College, 1946.

Leslie Phillips Worcester State Hospital
Instructor (Affiliate) in Clinical Psychology

Lester Ward Parker, A.B. 28 Hollywood St.
Visiting Instructor in English.
A.B., Clark University, 1909.

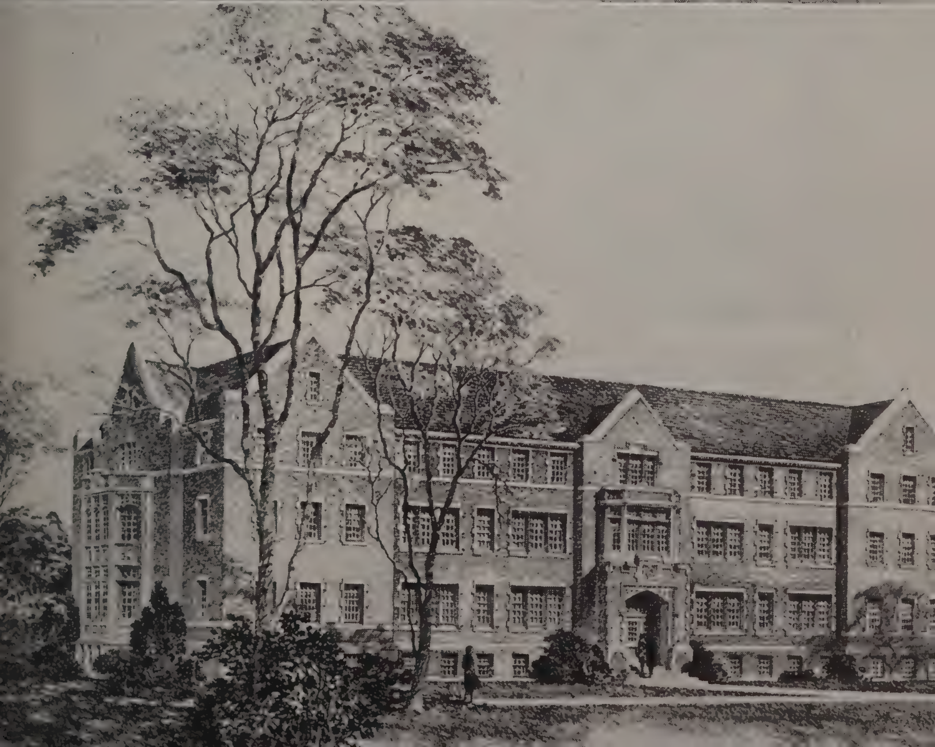
Philip H. Breen, LL.B. 151 Barnard Rd.
Visiting Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

TEACHING FELLOWS

Myron A. Baskin
History and International Relations.
A.B., Wheaton College (Illinois), 1941; A.M., Clark University, 1942.

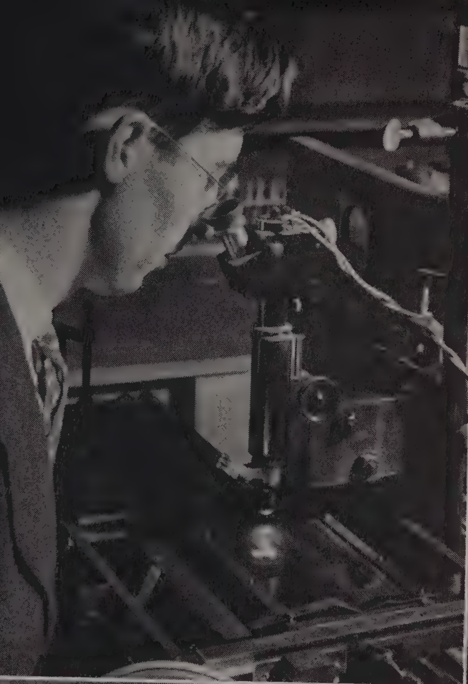
George Passey
Psychology.
B.Sc., Springfield College, 1942.

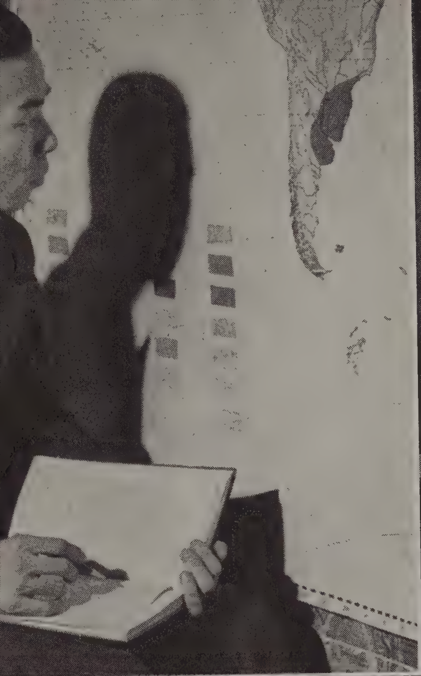
UNIVERSITY



Estabrook Hall

PINE PATH
THE A.P.Y.





Administrative Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Dwight E. Lee.

THE UNIVERSITY SENATE

An advisory board appointed by the President.

Samuel J. Brandenburg
Jesse L. Bullock
Loring H. Dodd
W. Elmer Ekblaw
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*

Roger G. Barker
Samuel J. Brandenburg
Jesse L. Bullock
W. Elmer Ekblaw
Vernon Jones
H. Donaldson Jordan
Dwight E. Lee
Arthur F. Lucas
Arthur E. Martell
James A. Maxwell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Robert H. Brown, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the college, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the degree of Bachelor of Arts.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*
Robert H. Brown
Arthur F. Lucas
M. Hazel Hughes
Paul Marble
Percy M. Roope
Rudolph F. Nunnemacher, *Secretary*

THE COMMITTEE ON EXTENSION COURSES

The Committee exercises general supervision over "courses of college grade for adults" and over candidate for the degree of Bachelor of Education, and recommends to the Faculty candidates for this degree.

President Howard B. Jefferson, *ex officio*
Samuel J. Brandenburg, *Chairman*
C. E. Melville, *Secretary*
John E. Bell
Henry M. Bosshard
Homer P. Little

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

Henry M. Bosshard
Vernon Jones
Jesse L. Bullock
Homer P. Little
Arthur F. Lucas

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise "honors work", "senior surveys" and comprehensive examinations.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*
Arthur F. Lucas, *Chairman*
Henry J. Warman, *Secretary*

Henry M. Bosshard
H. Donaldson Jordan
Homer P. Little
Paul F. Marble
David Potter
J. Richard Reid
Percy M. Roope

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*
Arthur F. Lucas, *Chairman*

John E. Bell
Samuel J. Brandenburg
George E. Hargest
Homer P. Little
Raymond E. Murphy

STANDING COMMITTEES OF THE GRADUATE BOARD

The President of the university is, *ex officio,* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

S. Van Valkenburg, *Chairman-Secretary*

Samuel J. Brandenburg
Jesse L. Bullock
Vernon Jones
Dwight E. Lee

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

H. M. Bosshard, Professor of German
J. Richard Reid, Professor of Romance Languages
A representative of the students' major department

STANDING COMMITTEES OF THE COLLEGE BOARD

The President of the university and the Dean of the college are, *ex officio,* members of all committees of the College Board.

EXECUTIVE COMMITTEE

Rudolph F. Nunnemacher, *Secretary*
Paul F. Marble

THE COMMITTEE ON ADMISSIONS

Samuel J. Brandenburg
Robert S. Illingworth
Carey E. Melville
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*
Ernest R. Whitman

COMMITTEE ON STUDENT FINANCES

Guy H. Burnham, *Chairman*
George E. Hargest
Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

Rudolph F. Nunnemacher, *Chairman*
M. Hazel Hughes
Donald H. Letendre

COMMITTEE ON FRATERNITIES

J. Richard Reid, *Chairman*
W. Elmer Ekblaw

COMMITTEE ON PUBLICATIONS

Dwight E. Lee, *Chairman*
Henry M. Bosshard
Percy M. Roope

COMMITTEE ON STUDENT PERSONNEL

Henry M. Bosshard, *Chairman*
Robert H. Brown
Paul F. Marble

THE COMMITTEE ON VETERANS

David Potter, *Chairman*
John E. Bell
Percy M. Roope
Samuel Van Valkenburg

THE UNIVERSITY

HISTORICAL NOTE

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BUILDING AND GROUNDS

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ADMISSION

THE ACADEMIC YEAR

TUITION AND OTHER EXPENSES

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

Historical Note

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Mr. Clark received such formal education as was then provided by a rural Massachusetts community and had established himself in business at the age of twenty-one. In 1853 the opportunities provided by the development of gold mining in California attracted him to San Francisco where, in the course of the next ten years, he amassed a considerable fortune. Shortly after the ending of the Civil War he retired from active business and settled in Worcester. Here, except for several extended trips to Europe, he resided until his death on May 23, 1900.

Conscious of the meagerness of his own early educational opportunities, Mr. Clark devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. The charter of the University was granted by the General Court of Massachusetts in 1887. After two years, during which time buildings were constructed and a faculty was assembled, the first students were received in October, 1889.

For president of the new institution the trustees selected Granville Stanley Hall, who had already become widely known as professor of psychology at The Johns Hopkins University. In the field of higher education the major interests of President Hall were in graduate instruction, with vigorous and explicit emphasis upon original research. These interests were decisive in shaping the character of Clark University.

In 1889 there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, The Johns Hopkins University which had opened its doors in 1876, where particular emphasis was placed upon original research and the training of specialists.

President Hall promptly set about organizing in Worcester an institution concerned exclusively with graduate studies and research.

The men brought together as the faculty constituted a small but brilliant and original group of specialists who soon made an enviable reputation for Clark University. In 1900 when the Association of American Universities was founded Clark University was one of the fourteen charter members. For thirteen years, until 1902, the university devoted its attention exclusively to graduate study and research.

As time passed, it became clear that Mr. Clark's purpose in establishing an institution of higher education in Worcester was not being completely fulfilled. Although he was interested in the scholarly work carried on by President Hall and other members of the faculty, he had intended from the beginning to establish an undergraduate college, designed to serve especially the interests of young men of limited financial resources. At his death it was found that his will provided for the establishment of a college in which, in three year's time, young men might secure "preparation for citizenship and their work in life." In compliance with these and other terms of the will the trustees established Clark College with an administration and faculty distinct from those of the graduate school. The first freshman class was admitted to the college in the fall of 1902.

Carroll Davidson Wright, who was then serving as the first United States Commissioner of Labor, became president of the new college, contributing to it both the prestige of a national reputation and the skill of an experienced administrator.

From the beginning Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were expected. Admission requirements were flexible, but a high standard of performance was necessary to remain in college. The Degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere.

The general ideas of Mr. Clark were effectively and enthusiastically developed in the formulation of the educational program by the first Dean of the college, Rufus C. Bentley.

President Wright served the college until his death in 1909. His successor was Edmund Clark Sanford, then Professor of Psychology in the Graduate School.

Upon the simultaneous resignations of Presidents Hall and Sanford in the spring of 1920, the trustees selected Wallace Walter Atwood, professor of physiography at Harvard University, as president of both the graduate and undergraduate departments of the university.

The election of President Atwood marked a shift of emphasis at the graduate level from the field of Psychology, in which President Hall had made the university internationally known, to Geography, which was becoming increasingly prominent under the impact of the first World War on the consciousness of the American people. The Graduate School of Geography, with President Atwood as director, was organized to function within the general framework of the Graduate Department of the University.

Significant changes at the undergraduate level also occurred shortly after 1920. The normal period of residence required for the degree of Bachelor of Arts was increased from three years to four, although the possibility of obtaining the degree in three years remains. Participation in intercollegiate activities, including athletics, was encouraged.

Distinct improvements in the physical equipment of the University were made between 1920 and 1940. A dormitory for men was provided in 1924. In the same year the trustees purchased land, not far from the campus, for an athletic field. The Alumni Gymnasium, the Library Tower and the new auditorium, Atwood Hall, were completed in 1938 and 1939.

In 1941 a vocational program leading to the degree of Bachelor of Business Administration was introduced in the college under the direction of the Division of Business Administration. In 1941 the Women's College of Clark University was established by the trustees of the University, and since the fall of 1942 women have constituted a substantial part of the undergraduate student body. The academic requirements for women are identical with those for men and they attend the same classes.

President Atwood resigned after twenty-six years of service in 1946. He was succeeded by Howard Bonar Jefferson who, at the time of his selection, was professor of philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewhere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefitted by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society and between the Department of Psychology and Education and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

At the graduate level:

THE GRADUATE SCHOOL offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering instruction leading to graduate degrees in Geography.

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS offering instruction leading to graduate degrees in International Affairs.

At the undergraduate level:

THE COLLEGE FOR MEN (Clark College) offering a general college course leading to the degree of Bachelor of Arts.

THE COLLEGE FOR WOMEN offering a general college course leading to the degree of Bachelor of Arts.

THE UNDERGRADUATE DIVISION OF BUSINESS ADMINISTRATION offering, to both men and women, vocational training, leading to the degree of Bachelor of Business Administration.

THE LIBRARY with an endowment separate from the endowment of the teaching branches of the University.

THE ART COLLECTION, separately endowed for the preservation and expansion of the Art Collection of the University.

THE CLARK UNIVERSITY PRESS is associated with the University in the publication of scientific books and journals.

DEPARTMENTS at present offering courses of study are:

- Biology
- Classical Languages and Literatures
- Chemistry
- Economics and Sociology
- English Language and Literature
- Fine Arts
- Geography
- Geology
- German Language and Literature

History and International Relations
Mathematics
Physics
Psychology and Education
Romance Languages and Literatures

The departmental offerings are currently supplemented by courses in Philosophy, given by President Jefferson, and by a course in Health Education for Women given by Miss Hughes, the Director of Physical Education for Women.

Courses in drawing and painting, in music and in the cultural development of various peoples are offered in the Department of Fine Arts.

Courses in business administration are offered under the direction of the undergraduate Division of Business Administration.

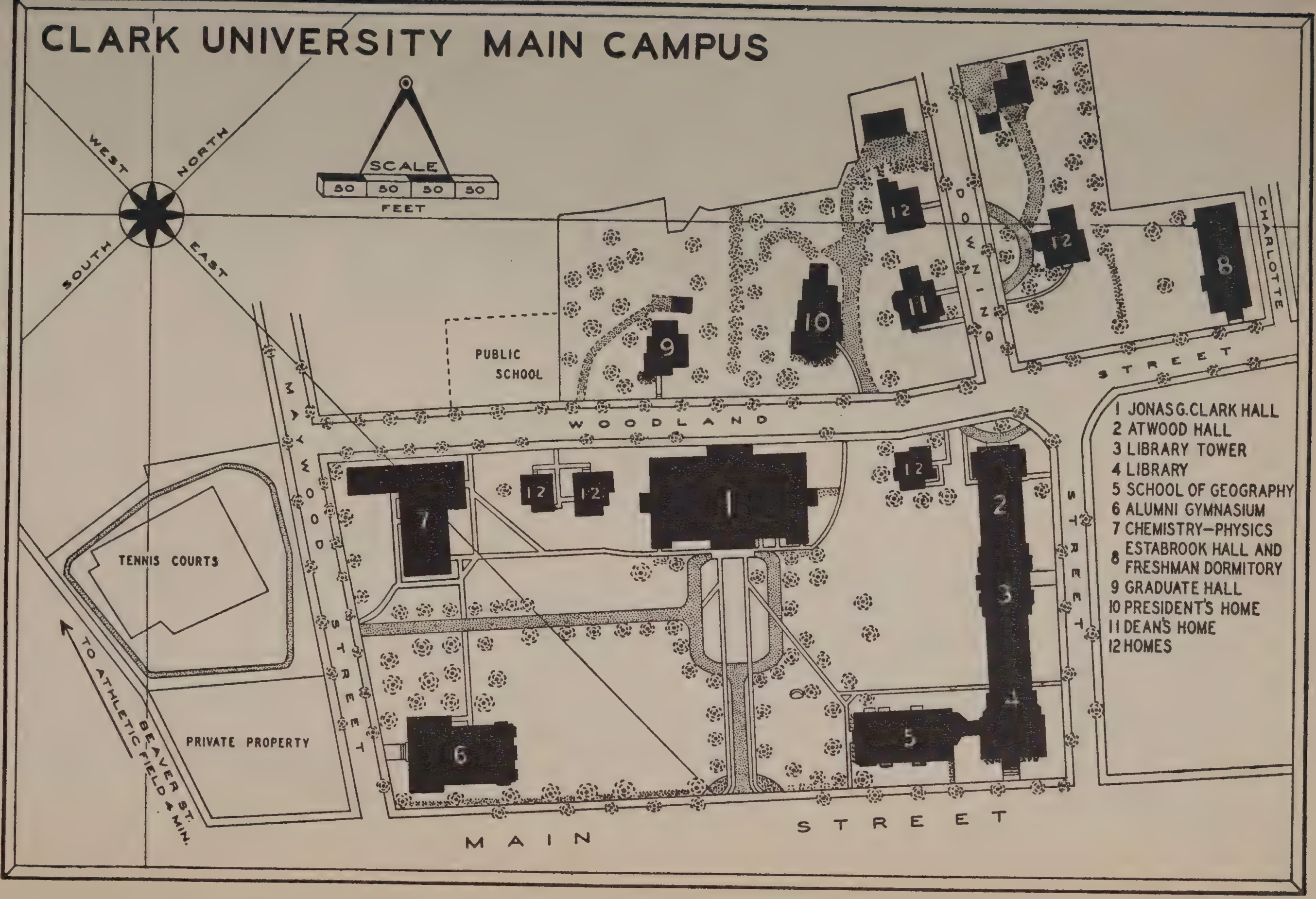
Buildings and Grounds

The University campus is situated on Main Street about a mile and a quarter south of the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. There is a small athletic field opposite the campus on Maywood Street, providing tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for soccer, baseball, and other sports. The Hadwen Arboretum, the gift of Mr. O. B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

The Main Building (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

The Science Building, also completed ln 1889, houses the Departments of Physics and Chemistry in a solidly built brick structure with interior partitions of brick.

CLARK UNIVERSITY MAIN CAMPUS


WEST
NORTH
SOUTH
EAST
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FEET
PUBLIC SCHOOL
MAYWOOD STREET
WOODLAND
DOWNING STREET
CHARLOTTE
MAIN STREET
TENNIS COURTS
PRIVATE PROPERTY
BEAVER ST.
TO ATHLETIC FIELD 4 MIN.
1 JONAS G. CLARK HALL
2 ATWOOD HALL
3 LIBRARY TOWER
4 LIBRARY
5 SCHOOL OF GEOGRAPHY
6 ALUMNI GYMNASIUM
7 CHEMISTRY—PHYSICS
8 ESTABROOK HALL AND FRESHMAN DORMITORY
9 GRADUATE HALL
10 PRESIDENT'S HOME
11 DEAN'S HOME
12 HOMES

THE LIBRARY BUILDING, completed in 1903, marked a departure from the simpler style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material.

The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. This wing is now used partly for library purposes and also houses the President's office and Graduate School of Geography. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

ATWOOD HALL has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 850, which is used for weekly college assemblies and other University functions. It is also used for public gatherings.

THE ALUMNI GYMNASIUM, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains a comfortable lounging room which provides a convenient and attractive meeting place for various University organizations.

ESTABROOK HALL, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

There are at present three women's dormitories, all located on Woodland Street near the campus. These accommodate about fifty women.

The President's home and the home of the Dean of the College face the campus on Woodland Street.

The Library

The Library, under the terms of Mr. Clark's will, received one-quarter of his estate for the "support and maintenance of a university library." Thus from the very beginning, the University was provided with good library facilities so essential in higher education.

The book collection consists of over 178,000 volumes, and the Library receives more than 650 periodicals and newspapers. Outstanding features of the Library's collection are complete sets of many scientific journals, an extensive collection of maps, and a collection of musical recordings including the Carnegie Musical Set consisting of 648 records.

A special library of books on art is housed with the Art Collection in the Art Room.

In general the Library aims to provide suitable materials and an atmosphere for study, research and recreational reading.

THE ART COLLECTION

Loring Holmes Dodd, *Curator of Art*

In his last will and testament the founder of the university bequeathed to it his collection of oil paintings and other works of art, together with the sum of $100,000 as a permanent and separate endowment for the maintenance and enrichment of the Art Department. A large room on the upper floor of the library building is used to display a selection from Mr. Clark's paintings and other works of art and his most valuable and finely bound books.

A series of eight very beautiful stained glass windows by Joseph Reynolds, Jr., one of the most noted stained glass craftsmen in the country, have recently been added to the collection. Each of these represents a phase of teaching at the University.

Special art exhibitions are arranged from time to time.

Admission

Three classes of students are accepted in the University:

1. GRADUATE STUDENTS, candidates for the degrees of Master of Arts and Doctor of Philosophy; also other mature persons with the necessary educational background. See announcement of the Graduate Schools.

2. UNDERGRADUATES, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration. See announcement of the undergraduate Colleges.

3. SPECIAL STUDENTS, mature persons who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

Special students are not classified as college students or as graduate students; they are, however, under the supervision of the College Board.

AUDITORS may be admitted at the discretion of the administrative officers of the University. They are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Requests for information and for application forms should be addressed to CLARK UNIVERSITY, 950 MAIN STREET, WORCESTER (3), MASSACHUSETTS.

The Academic Year

The academic year consists of two sixteen-week semesters. For the present a twelve-week summer term supplements the regular academic year.

The first semester begins on the Monday before the fourth Thursday in September and ends on the Saturday before the nineteenth Monday of the academic year. The second semester begins on the nineteenth Monday and ends on the Saturday before the thirty-sixth Monday.

Commencement Day, at the end of the second semester, falls within the last ten days of May.

There are three recesses during the college year: Thanksgiving Day and the two days following; two weeks including Christmas and New Year's Day; and a week near the first of April. University exercises are suspended also on Washington's Birthday and Memorial Day.

The summer term begins on a Monday early in June and continues in session for twelve weeks.

The summer term makes it possible for an undergraduate to complete the requirements for a bachelor's degree in three calendar years or less. It is an integral part of the college year for those who take advantage of it.

The summer term is divided into two six-week sessions. The program for the second session is designed to meet the needs of teachers in the public schools and others who, in normal times, would attend a six-week summer school.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Tuition and Other Expenses

In accordance with the express wish of the founder the University has consistently aimed to keep its tuition and other fees as low as possible. The tuition has been raised from time to time in response to urgent need, but is still well below that charged by many similar institutions.

The statements which follow apply to the academic year 1946-47. It is possible that increased costs of materials and services will make it necessary to establish a new and higher schedule for some or all of the University charges.

MATRICULATION FEE

A matriculation fee of $5.00 is required of all regularly enrolled students in Clark University.

Auditors are not required to pay the matriculation fee.

Official statements of record are issued by the Recorder for matriculated students only.

TUITION

The regular academic year. Tuition for undergraduates with programs of not more than five courses is $300 for the "academic year." Undergraduates who enroll for more than five courses pay additional tuition at the rate of $60 per course.

Each undergraduate pays also a yearly "activities fee" of $20 which is collected with the tuition.

Tuition for graduate students with normal programs is $300 per year. Graduate students who enroll for less than a full program are charged at the rate of $60 per year for each course.

Tuition for part-time students and special students is at the rate of $10 per semester hour.

One half of the annual tuition and of the activities fee is collected at the beginning of each semester.

If tuition is not paid within ten days after the beginning of a semester the enrollment of the student lapses. A student whose enrollment has thus lapsed may be re-enrolled, with the permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of $2.

Summer term. Tuition in the summer term, with a normal program of two courses, is $60 for each session of six weeks. Tuition is charged at the rate of $10 per semester hour for other programs.

Tuition is due and payable at any time before 5 P.M. of the Thursday following the beginning of each session of the summer term.

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

LABORATORY FEES AND DEPOSITS

A new schedule of laboratory fees and deposits will be effective at the beginning of the 1947 summer term.

Laboratory fees, payable at the time of registration, are charged in undergraduate "laboratory courses" as follows:

$10 for each course (six semester hours).

$5 for each half-course (three semester hours).

For courses yielding other amounts of credit the fees are adjusted on the above basis.

A "breakage deposit" is required in all undergraduate "laboratory courses" in chemistry. These deposits are collected by the Bursar, at the time of registration, according to the following schedule:

$20 for any one of the courses in the following list: 110, 111, 215.

$30 for any two of the above courses taken concurrently.

$10 for each year course, excepting those listed above.

$5 for each half course, excepting those listed above.

For courses yielding other amounts of credit, the deposits are adjusted on the above basis.

The Bursar returns any unused balance or collects any charge for breakage in excess of the deposit, after the course is completed.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of $25 is required of each graduate student in the department of chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

DIPLOMA FEES AND PUBLICATION FEES

For a bachelor's degree, the diploma fee, $5, is due at the beginning of the term in which the candidate expects to complete work in residence for the degree.

For a master's degree, the publication fee, $10, and the diploma fee, $10, are due when formal application for admission to candidacy for the degree is filed.

For the degree of Doctor of Philosophy, the publication fee, $15, and the diploma fee, $25, are due when formal application for admission to candidacy for the degree is filed.

MISCELLANEOUS FEES

Each freshman pays an "induction period fee" of $2.00.

The "activities fee" is listed in connection with "tuition."

Graduate students who use the gymnasium pay a fee of $10 per year.

Graduate students in geography pay, in addition to the regular tuition, a "camp fee," a "workroom fee" and a "classroom-materials fee." For details see the announcement of the Graduate School of Geography.

DINING HALL

Board at the dining hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is $9.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the dining hall.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

The charges for rooms in Estabrook Hall are as follows:

For all rooms, except those on the mezzanine floor:
  Suite of two rooms occupied by two men, $125 per year for each occupant.
  Suite of two rooms occupied by one man, $150 per year.
  Single room occupied by two men, $110 per year for each occupant.
  Single room occupied by one man, $135 per year.
For rooms on the mezzanine floor:
  Single room occupied by two men, $115 per year for each occupant.
  Single room occupied by one man, $135 per year.
The charges for rooms in the Women's Dormitories are as follows:
  Single room, $150 per year.
  Double room, $100 per year for each occupant.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

COLLEGE EXPENSES—SUMMARY

A student in the college who lives in the dormitory and boards at the dining hall will find that the necessary cost for a college year (September to May) is about $800 in addition to personal expenses.

This expense is distributed as follows:

Annual fees	
Tuition	$300.00
Room rent	100.00 to 150.00
Board (32 weeks at $9.50)	304.00
Activities fee	20.00
Laboratory fees (estimated)	10.00
Books and supplies (estimated)	25.00
Total	$759.00 to $809.00
Non-recurring fees, collected in the first year only	
Matriculation fee	$5.00
Induction period fee	2.00

Fellowships, Scholarships and Student Aid

In addition to the fellowships and scholarships provided by the University from endowed funds and other sources there are available throughout the United States numerous scholarships and fellowships supported by philanthropic foundations, fraternal organizations or large commercial enterprises. These are frequently awarded competitively on a nation-wide or a state-wide basis.

A great many scholarships, especially at the college level, are provided by local sources of various kinds. Any person who is interested in, or dependent on, aid in the form of fellowships and scholarships for the furtherance of his education may find it advantageous to inquire about such offerings from school officials, churches, fraternal organizations, chambers of commerce, etc.

Loans for educational purposes are also available from similar sources.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy at Clark University. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department vary from year to year. Fellows and scholars are expected to cooperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon. If the duties of a teaching fellow prevent the completion of a full year of graduate work during the regular academic year it is usually possible, by arrangement with his major department, to make up any deficiency by supervised work during the summer vacation.

Stipends for graduate fellowships are provided by the income of the George Hoar Fund which was given to the University by Andrew Carnegie, and from other special funds.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Appointments to fellowships and scholarships are announced about April first in accordance with an agreement among the members of the Association of American Universities. Assistants may be appointed at any time.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

STUDENT AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

The John White Field Fund. This fund of five hundred dollars was established by Mrs. Eliza W. Field. The income is to provide for the minor needs of a scholar or fellow.

The George S. Barton Fund. The income from this fund of five thousand dollars is devoted to aid some one or more worthy native born citizens of the City of Worcester.

The Eliza D. Dodge Fund. The income of this fund of one thousand dollars is granted to graduate students of limited means who are engaged in research work.

The Chester Bland Fund. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department. It may also be used to defray the expense of visiting lecturers or of departmental research.

The Morton L. "Sonny" Lavine Foundation. The income from this memorial to Lieutenant Lavine of the United States Army, World War II, is to be used in the promotion of research in the Department of History and International Relations. The fund amounts to $1000.

Alumni Association Fund. This scholarship fund for the benefit of students who are studying for the degree of Doctor of Philosophy was provided by alumni who hold that degree.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

Alumni Loan Funds. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

The Mary S. Rogers Scholarship and Loan Fund has been able, since its founding in 1926, to care for every need for loans in the Graduate School. The balance of the fund is now over $30,000. Loans bear interest at 4 per cent per annum.

The Sarah M. Thurber Loan Fund was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees, as a memorial to his mother. This fund is administered by the president of the university.

UNDERGRADUATE SCHOLARSHIPS

Undergraduate scholarships are provided from a variety of sources and vary in amount. Some of them are restricted to residents of a definite locality. In other cases applicants from a particular locality or those studying particular subjects have a preference over others. Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured at the college office.

The Jonas G. Clark Scholarships, established by the trustees, provide either full tuition or half tuition for undergraduate male students from outside of Worcester.

To be eligible for a scholarship award an entering student must have averaged in the upper third of his preparatory school class. The scholarship committee may continue the award from term to term as long as the student maintains an average in the upper half of his college class.

The Theodore T. and Mary G. Ellis Fund provides scholarships covering half tuition or, in some cases, full tuition for male residents of Worcester who are students in "the collegiate department of Clark University." The eligibility requirements are the same as for Jonas G. Clark Scholarships. Sufficient funds have been provided to make it questionable whether any qualified male resident of Worcester who desires a college education need forego such an advantage.

The Sanford Memorial Scholarship Fund, established by alumni of the university, provides an annual scholarship, amounting at present to $200, for a male undergraduate.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually, on the basis of academic success, character, and usefulness to the college. This scholarship is for male students who are residents of Worcester County.

The Henry A. Willis Fund provides scholarships for male students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

The Helen Brewster Randolph Memorial Scholarship, established by the later Professor Randolph, provides about $250 annually for scholarships for male college students, preferably those whose "major" is a foreign language.

The Gordon A. Hubley Scholarship Fund of approximately $25,000 was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is to be used for the assistance of male undergraduates who are residents of Worcester.

The B'nai Brith Scholarship, provided by the Worcester chapter, Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

The Probus Club of Worcester offers a scholarship of one hundred dollars.

The Harry G. Fager Scholarship of the Odin Club is awarded annually to some young man of superior scholarship and personality, with limited means and of Scandinavian blood, from Worcester or vicinity. This scholarship, $200, is awarded every second year to a student at Clark University.

The Clark University Faculty Women's Club offers scholarships to students who rank high in intellectual and personal qualities. The club is assisted by alumnae and wives of alumni.

The Clark University Alumnae Association offers at present two scholarships of one hundred and fifty dollars to students in the Women's College.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

UNDERGRADUATE LOANS

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

The Alumni Loan Fund is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

The Estabrook Loan Fund was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

The Haskell Talamo Loan Fund has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

The Louis N. Wilson Fund, established by the first librarian of Clark University, is used as a revolving loan fund for male students in the college.

Loans from the funds described above are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

GRADUATE AND UNDERGRADUATE PROGRAMS

THE GRADUATE SCHOOL

THE GRADUATE SCHOOL OF GEOGRAPHY

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS

THE MEN'S COLLEGE (Clark College)

THE WOMEN'S COLLEGE

THE DIVISION OF BUSINESS ADMINISTRATION

The Graduate School

Admission to the Graduate School is open to properly qualified persons, both men and women. Instruction and opportunities for study leading to the degrees of Doctor of Philosophy and Master of Arts are offered in the following subjects:

Chemistry
Economics
Geography
History
International Affairs
Psychology

Work leading to the degree of Master of Arts is also offered in the following subjects:

Biology
Education (Master of Arts in Education)
Physics

Courses of an advanced nature in other subjects may, with the consent of the Graduate Board, be included in the programs of graduate students.

ADMISSION TO THE GRADUATE SCHOOL

Admission is granted only by the Graduate Board on recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will receive the application blanks and should submit them to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge his qualifications, and a recent photograph (passport size preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college, and requires no special preparation. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for reinstatement.

Admission of seniors to graduate courses. Seniors in Clark College who rank in the upper third of their class may, in exceptional cases, be admitted to courses primarily for graduate students by authority of the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered and after approval by the College Board.

SCHOLARSHIPS, FELLOWSHIPS, AND STUDENT AID

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively. Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. Applicants, after being endorsed by the departments, are acted upon by the Graduate Board.

According to an agreement of members of the Association of American Universities, the elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate.

Some fellowships are designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow. Whenever such duties prevent the fellow from carrying a full program of studies during the academic year, he may earn the equivalent of full-time credit for the year through an adequate summer program of research or study directed by the major department and approved by the Graduate Board.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Stipends for fellows and scholars, other student aid and educational loans for graduate students are provided by the income of special funds which are listed elsewhere under the heading, "Fellowships, Scholarships and Loan Funds."

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimal requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree. Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10);
3. Obtained the written endorsement of his major department.

Candidacy for the degree of Master of Arts will, unless extended by action of the Graduate Board, hold good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Each student must meet a minimal course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with an abstract, both approved by the supervising instructor, must be deposited in the Recorder's office not later than May 10 preceding the commencement at which the degree is to be conferred. The abstract must not exceed 600 words in length. Both the thesis and the abstract are deposited by the Recorder in the University Library. Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the oral examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must take the examinations in foreign language not later than March first of his first year of residence at Clark University beyond the master's degree. These examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year. An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed the required examinations in foreign languages;
3. Passed a preliminary examination in his chosen fields of study;
4. Paid the diploma fee ($25) and publication fee ($15);
5. Obtained the written endorsement of his major department.

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 1200 words in length, is also required.

Two copies of the dissertation and three copies of the abstract must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Not later than May 1 of the year the degree is to be conferred one completed copy of the dissertation and two copies of the abstract must be deposited in the office of the University Recorder. This copy of the dissertation and one copy of the abstract are deposited in the University Library where they remain permanently.

At the same time a second copy of the dissertation and a copy of the abstract must be delivered to the major department. These may be retained in the department or deposited in the library for loan purposes.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the university to be present and to assist in the examination.

The Graduate School of Geography

SAMUEL VAN VALKENBURG, PH.D., Director of the Graduate School of Geography and Professor of Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography; Editor, *Economic Geography.*

RAYMOND E. MURPHY, PH.D., Professor of Geography.

RICHARD J. LOUGEE, PH.D., Associate Professor of Physiography.

HENRY J. WARMAN, PH.D., Assistant Professor of Geography; Secretary of the Graduate School of Geography.

GUY H. BURNHAM, A.M., Cartographer and Instructor in Geography.

VISITING PROFESSORS AND SPECIAL LECTURERS, 1946-47

MAJOR WALLACE W. ATWOOD, JR., PH.D., Chief, Topographic Model Division, Washington, D. C., Director of Autumn Field Camp.

KIRK BRYAN, PH.D., Harvard University, Special Lecturer in Geomorphology.

CHARLES B. FAWCETT, PH.D., University of London, Visiting Professor of Political Geography and Demography, second semester.

ERWIN RAISZ, PH.D., Harvard University, Special Lecturer in Cartography.

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography and interpretation of aerial photographs, provide unusual facilities for research work in residence. The staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. While in residence, they offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

GEOGRAPHY COURSES FOR COLLEGE STUDENTS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography. Courses required in geography will be chosen from: 10a, 10b—usually taken in the freshman year—12a, 12b, 16, 18a, 18b, 182a, 183a, 184, 191. The courses in related fields will be chosen from Geology 12; Biology 11, 12; Physics 11; Economics 11; History 18.

By special permission, majors in geography, in their third and fourth years, may elect graduate courses offered in the Graduate School of Geography.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils and land utilization, plant geography, economic geography, human geography and cultural geography, regional geography, and political geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundamentals to enable them to qualify in less time.

Candidates for the doctor's degree in geography will pass written examinations in the above fields, and a general oral examination covering six major fields approved by the staff. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in biology, economics, history and international relations chosen from the following: botany (Biol. 14); economic history (Ec. 14); economic statistics (Ec. 16); international trade, theory and finance (Ec. 27a); international economic policies (Ec. 31); The Pacific and the Far East (Hist. 22).

THE FIELD CAMP

A distinctive feature of the Graduate School of Geography is the autumn field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, industrial geography and weather observations, with special training in mapping and other field techniques. Cars, scientific instruments and other equipment are provided. Suitable field clothing and blankets must be provided by the individual student. Following return to the campus, about ten days are allowed for completion of field reports. Formal course work begins on the second Monday after close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coördinate their work prior to the examination period.

STUDENTS' FEES

All geography students in residence must pay in addition to the general university fees, the camp fee, the workroom fee, and the classroom materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. For a student taking the field course only, the tuition fee is $25 in addition to the camp fee. The camp fee covers board and lodging, transportation, maps, drafting supplies and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November 1st and March 1st. It helps maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, drafting tables and instruments, and adding machines.

The classroom fee, $5 a semester, is payable November 1st and March 1st to the department. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment, and for the expense of meteorological materials.

COURSES IN GEOGRAPHY

The following courses were given in 1946-47. The numbers indicate courses as described under "Geography" in the alphabetical list of departments and courses of instruction unless other information is given.

10, 12, 383a, b, 20b.	Mr. Warman
16, 36, 387a, 361b.	Mr. Murphy
201, 301, 32.	Mr. Van Valkenburg
27a, b, 33a, b.	Mr. Ekblaw
18b, 312, (Map Interpretation.)	Mr. Lougee
191.	Mr. Burnham
30. Seminar.	Staff
300. Ph.D. Seminar.	Mr. Van Valkenburg
399a.	Visiting Professor, Mr. Atwood and Staff
371.	Visiting Professor, Mr. Fawcett
381.	Visiting Professor, Mr. Fawcett

Courses in Geography which are to be offered in 1947-48 will be found listed, with descriptions, under "Geography" in the list of Departments and Courses of Instruction.

The Graduate Division of International Affairs

GEOGRAPHY, DIPLOMACY, ECONOMICS

ADMINISTRATIVE COMMITTEE

SAMUEL J. BRANDENBURG, *Professor of Economics and Sociology*
DWIGHT E. LEE, *Professor of Modern European History*
SAMUEL VAN VALKENBURG, *Director of the Graduate School of Geography*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in International Affairs are admitted either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Men's College

"CLARK COLLEGE"

The college offers a general program leading to the degree of Bachelor of Arts, and a vocational program leading to the degree of Bachelor of Business Administration.

ADMISSION TO THE FRESHMAN CLASS

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College, Clark University, Worcester 3, Mass. Application for admission should preferably be made by March 1. *No application received after May 1 can be promised consideration.*

An applicant for admission to the freshman class is required to furnish satisfactory character references. He must also furnish his records in any preparatory schools which he has attended. Records of entrance examinations which he may have taken and of action by any other college in respect to his admission are also required.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the freshman class. The term "unit" is understood to mean approximately one-quarter of the pupil's normal program of work for the school year.

The fifteen acceptable units of credit which are required for admission as a candidate for the degree of Bachelor of Arts must include:

Required subjects, 5 units.
- English, 3 units (4 years).
- *Mathematics, 2 units (algebra and geometry).

Restricted electives, 7 or more units chosen from:
- Foreign language, 2, 3, or 4 units. (The college does not accept less than 2 units in any foreign language.)
- Social sciences, 2 or 3 units (history, government, civics, economics, etc.)

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*Applicants expecting to specialize in "science" are advised to present at least 3 units of mathematics.

Natural sciences, 2 or 3 units (physics, chemistry, biology, etc.)
Mathematics, 1 or 2 units (in addition to required units).

Free electives; not more than 3 units, at the discretion of the committee on admissions, in subjects recognized by the applicant's preparatory school in its regular program.

Quality Requirements. Applicants whose references are satisfactory and who are "certified" in fifteen acceptable units may be admitted without conditions. A principal may also give "blanket certification" without consideration of specific subjects. In doing so he accepts complete responsibility for the student's success in college.

Applicants who present fourteen "certified" units and one "pass" unit may be admitted with *one condition* (see below); applicants who present thirteen "certified" units and two "pass" units may be admitted with *two conditions.* No applicant with less than thirteen acceptable units of "certified" credit or its equivalent will be accepted without examination unless his average grade places him in the highest quarter of the class with which he graduates from high school. Applicants who qualify under this provision may be admitted "with two conditions."

Certificates are accepted from schools in New England on the basis of well established standards which prevail in that region.

A certificate from a school which lies outside New England will be interpreted to mean that the student is prepared to undertake college courses for which the certified subjects are prerequisite. A school will be judged in respect to continued certification privilege, on the basis of the college records of the candidates in the certified subjects.

Entrance Examinations. Applicants who cannot present the necessary number of "certified" units should arrange in consultation with the Dean of the college to take "College Board" examinations. The college will determine in each case what constitutes a satisfactory record in the examinations.

Conditions. Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the candidate's preparation as a whole.

Applicants who are accepted "with conditions" have an opportunity to free themselves from these conditions before enrolling, by satisfactory records in "College Board" examinations.

Conditions are removed if, at the end of the freshman year, the student has met the scholarship requirements for regular standing, namely, no failures and grades above D+ in three-fourths of the normal credit for the year.

A last chance to remove conditions is offered by "College Board" examinations after the end of the freshman year and before the beginning of the sophomore year.

Each condition not removed before the beginning of the sophomore year is replaced by an additional requirement for graduation amounting to one-half course.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification. He will not be given a final class rating until he has been in residence for at least one term.

After a term in residence he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

Graduates of the three year course of the Worcester Art Museum school may be admitted as candidates for the bachelor's degree with the rank of *junior* in the college.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

THE ACCELERATED PROGRAM

Since 1942, Clark University has offered an "accelerated program" of college work which permits a student who takes advantage of the twelve-week summer term to complete the requirements for a bachelor's degree in three calendar years.

The accelerated program will be continued to meet the needs of returning servicemen who find it desirable to complete the requirements for the degree in a period shorter than four academic years.

FACULTY ADVISERS

When a student is admitted to the college he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel.

FRESHMAN INDUCTION PERIOD

The freshman class of the men's college assembles at the college a few days before the opening of the academic year to complete various important preliminaries before the beginning of class work. If conditions warrant, the induction period is spent at some suitable place in the country, not too far from Worcester. This involves a small special charge.

REGISTRATION

Registration of a program of studies for each term of the college year takes place at or before the beginning of the term. Due notice of registration periods is given. Failure to register before the end of the periods designated involves a charge of $1 for each day's delay up to a maximum of $5.

Changes in registration may be made, on forms supplied by the Recorder, within a reasonable time after the beginning of any term.

Freshmen may register for programs of either five or six courses in the first term. In subsequent terms programs of six courses are restricted to students whose average grade in all courses for the preceding term has been C+ or better, except in the case of seniors. A senior whose graduation depends upon the completion of a program of six courses may register for such a program if his average grade for the preceding term has been C— or better.

The designation of a *major subject* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major subject* is not officially recorded until the student's second year in college, he should plan his program from the beginning with his probable choice in mind.

STUDENT PROGRAMS

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies includes a group of courses constituting a *major,* also courses in English, in foreign language, and in fine arts or music, and other courses chosen under regulations intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

For statements regarding courses which may be combined to form a *major,* the announcements of the different departments should be consulted.

A regular student normally carries a program of five courses throughout the academic year, September to May, in addition to required work in physical training. In general it is expected that a course meeting three times weekly will require two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Instruction is offered in four groups of subjects.

GROUP A. (Science and Mathematics.) Biology, botany, chemistry, experimental psychology, geology, mathematics, meteorology, physics, and physiology.

GROUP B. (Social Sciences.) Economics, education, geography, history, international relations, psychology, and sociology.

Group C. (Language.) Classical languages, English, German, and romance languages.

Group D. Fine Arts.

The Freshman Program. A first-year sudent must make up his program entirely from courses designated as "Open to Freshmen."

A candidate for the degree of Bachelor of Arts must include the following courses in his program for the freshman year:

1. English 11.
2. A course in foreign language.
3. A course in group A.
4. A course in group B.
5. An elective. (Mathematics 10 or 11 for students intending to major in group A.)

Candidates for the degree of Bachelor of Business Administration will follow the program outlined under the announcement of the Division of Business Administration.

Any first-year requirements which have not been completed must be included in the program of courses for the second year.

The Program for Undergraduates Other Than Freshmen. Undergraduates, other than freshmen, may enter any course listed under the heading, "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed under the heading, "for advanced undergraduates and graduate students." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only by special vote of the College Board and the approval of the secretary of the Graduate Board.

Regular physical exercise is required of all students for the general promotion of their health and mental efficiency. This is scheduled at times which avoid conflict with recitation hours. *Students are usually excused from this requirement only on the recommendation of the college physician.*

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

All college regulations involving a quantitative statement of "credit" are expressed in terms of "courses."

A "course" as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses.

A student in good standing in the college will be recommended for the degree of Bachelor of Arts whenever he completes all of the following requirements, unless in the judgment of the College Board there is cause for withholding this recommendation.

1. *Residence.* Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University.
2. *Course requirements.* Twenty courses in addition to required physical training, except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public Law 268. Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

   A satisfactory scholarship record must be maintained throughout the entire program.
3. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service are excused from the requirement in physical training.
4. *Assembly.* Attendance at a weekly assembly is required.

   Requirements 3 and 4 are in addition to the course requirements as stated above.
5. A *major,* i.e. seven courses, approved by the student's major department. Four or five of these courses must be in the major department, the remaining two or three must be in subjects related to the major subject.

Of the fourteen semester grades recorded in a student's *major,* at least eleven must be C or better.

Mathematics is a requirement in the freshman year for a student who intends to major in group A. This course may be included in the seven courses constituting the *major.*

Elementary Greek or Latin is a requirement in the freshman year for a student who intends to major in group C, unless at least two units of one of these languages have been accepted for admission. This course may be included in the seven courses constituting the *major.*

6. *English.* (a) English 11, or its equivalent; a requirement in the freshman year for all candidates for the degree of Bachelor of Arts.

   (b) An additional half course in English literature, composition or public speaking.

   (c) Satisfactory proficiency in the use of English.
7. *Fine Arts or Music.* A half course chosen from the following list: Fine Arts 1, 10, 11, 13, 15, 111; Music 12; French 113; German 141; Spanish 113.
8. *Foreign language.* (a) One course in foreign language, required in the freshman year.

   (b) One course in a foreign language at or beyond the level of third-year college courses in that language. This requirement may be met by the course required in the freshman year.
9. *Group A.* Two courses. These courses may not be distributed between more than two *fields* of study.

   Courses in the history of the sciences are not counted toward the fulfilment of this requirement.
10. *Group B.* Two courses. These courses may not be distributed between more than two *fields* of study.

GRADING AND SCHOLARSHIP

At the end of each term a final grade—in terms of A, excellent; B, good; C, average; D, poor; F, failure—is reported for each course. The modifying symbols plus (+) and minus (—) are used to indicate variations within each general classification. A report of "incomplete" is permitted only when severe sickness or some equally unavoidable circumstance prevents the completion of a course. Failures may not be "made up," except by repeating the course.

Courses with grades of D+, D or D— may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. If grades are not given in some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D— is reduced to one-quarter of the total credit from courses in which grades are given.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors or seniors on the basis of the amount of credit toward the bachelor's degree shown by their records at the beginning of each academic year. It is to be noted that this classification involves the question of quality as indicated in the preceding section. Neither length of residence nor number of courses completed will change a student's classification unless the required quality of work has been done.

A student who, at the beginning of any term, is clearly in a position to complete the requirements for the degree before the beginning of the next term is classified a *senior*.

GENERAL HONORS

First honors and *second honors* are awarded annually to members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

An "honors program," leading to the degree of Bachelor of Arts *with honors in a particular department,* may be undertaken by a member of the junior class if his cumulative scholarship average places him among the highest third of his class. This plan permits an able student in coöperation with his "honors' adviser", to organize the work of his junior and senior years into a unified program which may include a certain number of "honors courses." In these he works with a considerable measure of independence under the supervision of his "honors adviser". A maximum of two "honors courses" may be included in the program of any candidate for departmental honors.

Application for honors work should be made, in writing, to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special "honors courses" will be determined by the College Board in consultation with the major department.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the society." Membership in the society is open to members of the faculty. Student members are elected at the end of the junior year. The selection is made from students with highest standing in the junior class. Nominations are made by the College Board and the undergraduate members of the society elect from the students so nominated. Additional nominations are made at the middle and end of the senior year.

ABSENCES

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Detailed regulations in harmony with the foregoing principles are posted on the official bulletin board for the guidance of students. They are also published in the Students' Handbook, issued annually. Students are expected to familiarize themselves with these regulations.

Special regulations apply to attendance at the weekly assemblies and physical training.

EXTRA-CURRICULAR ACTIVITIES AND STUDENT LIFE

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and gentlemanly conduct. College activities are, however, under sufficient faculty oversight to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by the "activities fee." This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. Students in Clark College have the opportunity to participate in intercollegiate soccer, baseball, tennis, and basketball. In recent years the college teams have been particularly successful in basketball. A competent coach has immediate supervision over the athletic teams. General supervision of the athletics program is vested in the Athletics Board, consisting of the Director of physical training, the faculty Committee on Athletics, two alumni, and nine students. The Committee on Athletics has authority to revise or to veto decisions of the Athletics Board.

In addition to intercollegiate athletics, a steadily increasing intramural program gives opportunity for widespread participation in games and contests of various sorts.

Opportunities for recreation, outside of athletics, are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*) and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club. Gryphon, the senior honorary society, plays an important part in campus life. Non-athletic activities are under the supervision of Faculty Advisers. A Student Judiciary Committee meets monthly to consider problems brought to its attention by students or faculty.

Occasional teas at the Alumni Gymnasium give opportunity for informal social contacts with members of the faculty and their wives and with fellow-students. Formal "proms," informal "Bohemes" and fraternity activities furnish further opportunities for social life. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility. Participation in organized extra-curricular activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure. A student is "eligible" if he is enrolled in a regular program of five courses and if at the end of any half term he has (a) "passed" in all courses and been graded at least C— in one of them, or (b) "passed" in all but one course and been graded at least C— in two of them.

Any student carrying less than a full program of studies is ineligible unless his program permits graduation at the end of the term in which the reduced program is carried.

Ineligibility becomes effective the eleventh day after the beginning of a half term and continues through the tenth day of the succeeding half term.

Students admitted with advanced standing from another college are ineligible during the first half term of residence at Clark College.

A special student is not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a full program (five courses). Special students may participate in non-competitive activities under special regulations established by the College Board.

The Women's College of Clark University

ADVISORY BOARD FOR THE WOMEN'S COLLEGE

Mrs. Harold D. Woodbury, *President*
Mrs. Robert K. Shaw, *Vice President*
Mrs. Paul R. Swan, *Secretary*
Miss Louisa Dresser
Mrs. George F. Booth
Mrs. Jacob Asher
Mrs. Myron F. Converse
Miss Ruth Tomlinson
Mrs. Robert W. Stoddard
Mrs. Clarence S. Arms
Mrs. Reginald Washburn
Mrs. Thomas F. Power
M. Hazel Hughes

FOR THE ALUMNAE

Miss Katherine R. Feeley
Miss Mary L. Ward
Miss Florence C. McKeon
Mrs. James M. Redican

FOR THE FACULTY WOMEN'S CLUB

Mrs. H. Donaldson Jordan
Mrs. Haven D. Brackett
Mrs. J. Richard Reid
Mrs. Percy M. Roope

The Women's College of Clark University was established in the fall of 1942 for the benefit of young women who wish to attend college in Worcester.

All courses of instruction available for men are open to women. The requirements for admission and for a bachelor of arts degree are identical with those for men, and the same tuition and fees are charged. (See earlier section of this catalogue, where requirements and fees are dealt with in detail.)

Undergraduate women who do not commute from their own homes are expected to live in one of the women's dormitories. If other arrangements are desired, written request from a parent or guardian must be sent to the Dean's office and the Dean's approval must be obtained.

Suitable provision has been made for the comfort and convenience of women students while on the campus. A large room on the first floor of Jonas G. Clark Hall, attractively decorated and comfortably furnished, is used by the women as a lounge and study-room and as a center for their activities. They also have excellent gymnasium and luncheon room facilities.

The general supervision of the extra-curricular activities of women students is in the hands of Miss M. Hazel Hughes, director of student activities. The Women's College has an Advisory Board composed of representative Worcester women who are interested in the educational program, and who advise the administration on matters of general policy. The wives of members of the faculty coöperate with the women students in the planning and conduct of social affairs.

ATHLETICS

Women students use their own gymnasium for practice but have the use of the university gymnasium for games with outside organizations. All students are given a physical examination at the beginning of each year by a woman physician, who lives in the neighborhood and is readily available when needed.

Several types of athletics are open to women. In the fall hockey, archery and tennis are played outdoors. Tournaments are held in all sports in the spring and fall and a cup is awarded to the winner of each event. During the winter months basketball is the principal organized athletic activity.

There is also a physical fitness program, designed to improve posture and general health. Attendance at classes in physical training is required twice a week for the first two years. Training in a group sport and an individual sport is required during the junior year. Swimming and life saving courses are available through arrangements with the Young Women's Christian Association.

Students receive free tickets to all athletic events.

STUDENT ACTIVITIES

The Women's College has its own student government and class officers who direct student activities. A social committee plans parties and group meetings. There is a small but interested group which has formed an Inter-Faith Association which holds regular meetings.

Women students may join many of the organizations of the men's college. They serve on *The Scarlet*—the college newspaper, *The*

Pasticcio—the college yearbook, and are eligible for membership in the debating society and glee club. The women students participate in the dramatic productions, both in acting and in assisting with stage settings and costumes. The girls are represented on the "Boheme Committee" which plans the college dances, on the Student Activity Fund Committee, and on the Judiciary Council. New student organizations will be formed as the need arises.

INDUCTION PERIOD

The freshman class of the women's college and all women transfer students assemble at the college on Wednesday before the opening of the academic year to become acquainted and to complete various important preliminaries before the beginning of class work. If conditions warrant, the induction period is spent at some suitable place in the country, not too far from Worcester. This involves a small special charge.

ADMISSION AND SCHOLARSHIPS

As stated above, requirements for admission are outlined in detail in an earlier section of this catalogue. In addition to admissions to the freshman class, admission to the upper classes by transfer from other colleges is possible.

For scholarship aid to women the Trustees each year make a special grant, varying in amount with the established need.

The Clark University Women's Club and the Clark University Alumnae Association each offer two scholarships. The Swedish National Federation has a scholarship awarded annually to a deserving student of Scandinavian stock from Worcester or vicinity. The Soroptimists Club of Worcester has provided a scholarship for a woman student. Other special awards have been made possible by friends of the college.

Correspondence regarding admission and requests for application blanks should be addressed to:

DEAN OF THE COLLEGE, CLARK UNIVERSITY, 950 MAIN ST.,
WORCESTER (3), MASS.

The Division of Business Administration

ORGANIZATION

ADMINISTRATIVE COMMITTEE

PRESIDENT HOWARD B. JEFFERSON, *ex officio*

ARTHUR F. LUCAS, *Chairman*
JOHN E. BELL
SAMUEL J. BRANDENBURG
GEORGE E. HARGEST
HOMER P. LITTLE
RAYMOND E. MURPHY

The Division of Business Administration is an integral part of the undergraduate college of Clark University. Its administration is in the hands of the Administrative Committee.

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations and Psychology.

In 1946-47 the following members of the faculty gave courses in the program: Mr. Anderson, Mr. Bowman, Mr. Brandenburg, Mr. Breen, Mr. Gilson, Mr. Hall, Mr. Hargest, Mr. Hayden, Mr. Illingworth, Mr. Letendre, Mr. Lucas, Mr. Marble, Mr. Maxwell, and Mr. Murphy.

THE PROGRAM IN BUSINESS ADMINISTRATION

The Division of Business Administration offers a four-year program of studies designed to prepare young men and women for careers in business. Students electing this program will normally become candidates for the degree of Bachelor of Business Administration and must meet the specific requirements for this degree. Students in the Business Administration program are entitled to all privileges of the University which are open to undergraduates, including the right to elect undergraduate courses in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and American history and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

A PROGRAM FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS WITH EMPHASIS ON BUSINESS ADMINISTRATION

In addition to the program leading to the degree of Bachelor of Business Administration, the College offers a less intensive program in Business Administration for candidates for the degree of Bachelor of Arts. Students taking this program should major in economics and sociology. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Economics 12 for the Group B requirement. The program for the second year normally includes Business Administration 18 and 117 and Economics 11. In his third and fourth years the student should elect at least two basic courses in economics, such as Economics 13, 22 or 26, and at least four courses in business administration. The following are recommended: Business Administration 16, 124, 20, and 127.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 11a, 13b, 14b, 17, 128, 181a, 182b, 23a, 23b, 227, 237.

ADMISSION

Applicants for admission to the freshman class in the Business Administration program are accepted on the same basis as other applicants for admission to the college, except that the secondary school units presented for admission may be distributed as follows:

Required subjects	8 units	*Elective studies*	7 units
English	3 units	(of which as many as 3 units may be in commercial subjects)	
Mathematics (algebra)	1 unit	Total	15 units
Foreign Language (one language)	2 units		
Social studies	2 units		

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

The Freshman Program

A uniform program is normally required of all freshmen. It includes the following courses:

First Semester		*Second Semester*	
Eng. 11a	Composition	B.A. 14b	Business English
Econ. 12	Industrial and Commercial History	Econ. 12	Industrial and Commercial History
B.A. 11a	Fundamentals of Business	B.A. 13b	Business Mathematics
B.A. 117	Principles of Accounting	B.A. 117	Principles of Accounting
	An elective		An elective
	Physical Training		Physical Training

Additional Course Requirements

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

B.A. 16	Business Statistics
B.A. 18	Business Organization and Finance
B.A. 20	Business Law
Econ. 11	Principles of Economics
Econ. 13	Money and Banking*
Eng. 12	Public Speaking
Hist. 12b	American Government or Hist. 17 American History

Areas of Concentration

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. A proposed program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects. Typical of these integrated programs are the following:

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*Under special conditions Economics 13 may be replaced by certain other ccurses in Economics.

Accounting
- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Office Management

Foreign Trade
- Marketing
- Foreign Trade
- Economic Geography
- Industrial Psychology
- A foreign language

Management
- Intermediate Accounting
- Cost Accounting
- Marketing
- Industrial Management
- Office Management
- Psychology

Merchandising
- Marketing
- Selling and Advertising
- Foreign Trade
- Office Management
- Psychology

Personnel Management
- Industrial Psychology
- Tests and Measurements
- Personnel Management
- Industrial Management
- Office Management
- Labor Problems

Statistics
- Business Statistics
- Mathematics of Statistics
- Business Cycles
- Cost Accounting
- Industrial Management
- Office Management

GENERAL UNIVERSITY REQUIREMENTS

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except in so far as these are modified by the special requirements of the business program.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration which are to be offered in 1947-48 will be found listed with descriptions under "Business Administration" in the list of Departments and Courses of Instruction.

DEPARTMENTS AND COURSES OF INSTRUCTION

- BIOLOGY
- BUSINESS ADMINISTRATION
- CHEMISTRY
- CLASSICAL LANGUAGE
- ECONOMICS AND SOCIOLOGY
- EDUCATION
- ENGLISH
- FINE ARTS
- FRENCH
- GEOGRAPHY
- GEOLOGY
- GERMAN
- HEALTH EDUCATION FOR UNDERGRADUATE WOMEN
- HISTORY AND INTERNATIONAL RELATIONS
- MATHEMATICS
- PHILOSOPHY
- PHYSICS
- PSYCHOLOGY AND EDUCATION
- ROMANCE LANGUAGES
- SOCIOLOGY
- SPANISH

Departments and Courses of Instruction

Departments, and in some cases important subdivisons of departments, are listed alphabetically in the following pages.

Departmental announcements precede the lists of courses which are offered by the departments. These announcements contain important general information, as well as departmental regulations concerning graduate work and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content of the course, or to omit it. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to May) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Fractional credit is given for the satisfactory completion of one semester of work in any course unless the course is designated as "indivisible."

With the consent of the instructor, a course may be entered at the beginning of either semester.

Courses are classified under three headings as follows:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).

2. For Advanced Undergraduates and Graduate Studen designated by numbers beginning with the figure (2).

3. Primarily for Graduate Students, designated by numb beginning with the figure (3).

DEPARTMENT OF BIOLOGY

Professor Potter, Associate Professor Nunnemacher
Assistant Professor France

The biological laboratories are well equipped for the courses offe and contain special equipment for advanced investigations. Fu are available annually for the purchase and building of appara which may be required. The university library contains compl files of the more important periodicals and reference works. T department maintains an herbarium of over 40,000 sheets. Cert assistantships, fellowships and scholarships are available from ti to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequi to all other courses in the department.

An undergraduate majoring in biology must complete Biology and three advanced courses in biology, Chemistry 11, Physics Mathematics 10 or 11, and at least one additional course in chen try, physics or geology.

A candidate for honors in biology must also take Biology 14.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training p gram. Not only do our students have little difficulty in entering best medical schools, but they also rank in the upper half of th medical school classes and become respected and outstand physicians.

The student entering upon the pre-medical program must prepared to compete with other college students of above-aver ability; he must be of good health and capable of sustained h work; he must like and get along well with all kinds of people he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work and the student should not jeopardize his chances by worrying over his financial commitments. Scholarships are available and needy students should apply for them.

While the requirements for the Bachelor of Arts degree assure each graduate of a certain familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical schools leave no time for courses outside of their technical field. Courses in psychology and the study of human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following schedules are recommended for pre-medical students with a major in biology. Schedule A places the emphasis on biology; Schedule B places the emphasis on chemistry.

Schedule A	*Schedule B*
First year	First year
English	English
Foreign Language	Foreign Language
Mathematics	Mathematics
General Biology	General Chemistry
Group B (one course)	Group B (one course)
Second year	Second year
Biology 12	Chemistry 12a and 14b
General Chemistry	General Biology
Foreign Language	Foreign Language
Group B (one course)	Mathematics 12
½ course in English and ½ course Fine Arts	½ course in English and ½ course Fine Arts
Third year	Third year
Biology 16, 17, 18, 19 (Any two)	Chemistry 15
Chemistry 12a and 14b	Biology 12
Physics 11	Physics 11
Two electives	Group B (one course)
	½ course (elective)

Fourth year	Fourth year
Biology (Physiology)	Chemistry 19
Chemistry 15	Biology (advanced)
Three electives	Three electives

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

COURSES IN BIOLOGY

During the academic year 1946-1947 the following courses were given: 11, 12, 13, 14, 16, 17, 18, 144, 200, 203, 211, 216.

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F., 9; M., 2.

Mr. Potter and Mr. Nunnemacher

12. Comparative Anatomy. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. M. W. F., 10; Tu. F., 2. Mr. Nunnemacher

13. Seminar in General Biology. Credit is not given for this course. All students in the department are invited to attend and to participate. Staff of the Department

14. Botany. First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring field trip of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. Tu. Th. S., 11; Th., 2. Mr. Potter

15. INVERTEBRATE ZOOLOGY.
Omitted, 1946-47.

16. HISTOLOGY. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues.
Half course. Second semester. MR. NUNNEMACHER

17. EMBRYOLOGY. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.
Half course. First semester. M. W. F., 8. MR. NUNNEMACHER

18a. GENETICS. An introduction to the principles of genetics.
Half course. First semester. M. W. F., 11. MR. POTTER

101. ECONOMIC BOTANY.
Omitted, 1946-47.

102. ENTOMOLOGY.
Omitted, 1946-47.

144b. BACTERIOLOGY. An introduction to the study of bacteriology.
Half course. Second semester. MR. POTTER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200. GENERAL PHYSIOLOGY. Open to students who satisfy the instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physiochemical determinants.
Through the year. Tu. Th., 11; and two laboratory periods per week. MR. FRANCE

201a. HUMAN PHYSIOLOGY. An introduction to the functional aspects of the human body. Three lectures per week.
Half course. First semester. M. W. F., 8. MR. NUNNEMACHER
Omitted, 1946-47.

203. SPECIAL PROBLEMS. Advanced semi-independent study of an approved topic under the direction of a member of the staff.
Hours and credit to be arranged. STAFF OF THE DEPARTMENT

205b. PARASITOLOGY. An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind.

Half course. Second semester.
Omitted, 1946-47. MR. POTTER AND MR. NUNNEMACHER

206. ADVANCED SYSTEMATIC BOTANY. MR. POTTER
Omitted, 1946-47.

210. NEURO-ANATOMY.
Omitted, 1946-47.

211b. ENDOCRINOLOGY. A study of the ductless glands and their relation to behavior.
Half course. Second semester. M. W. F., 9. MR. FRANCE

216. MICROTECHNIQUE. During the first semester emphasis is placed on the preparation of animal tissues for microscopic study. The second semester is concerned with the preparation of botanical sections.
Through the year. One lecture and two laboratory periods per week. MR. POTTER AND MR. NUNNEMACHER

3. PRIMARILY FOR GRADUATE STUDENTS

304. SEMINAR IN EXPERIMENTAL PHYSIOLOGY. Credit is not given for this course but all graduate students are expected to participate in the regular weekly meetings. The seminar is largely conducted by the research staff of the department and by invited speakers. STAFF OF THE DEPARTMENT
Omitted, 1946-47.

308. RESEARCH IN PHYSIOLOGY.
Credit to be arranged. MR. FRANCE

309. RESEARCH IN BOTANY.
Credit to be arranged. MR. POTTER

310. RESEARCH IN ZOOLOGY.
Credit to be arranged. MR. NUNNEMACHER

COURSES IN BUSINESS ADMINISTRATION

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "Undergraduate Section" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which follow are grouped under the headings: Accounting, Economics, English, Geography, History, Law, Management, Mathematics, Merchandising and Statistics.

Because of the number of these subdivisions the headings,

1. Primarily for undergraduates
2. For advanced undergraduates and graduate students

have been omitted.

In 1946-47 the following courses were given: 11, 13, 14, 16, 18, 117, 127, 128; 20, 23.

ACCOUNTING

BUSINESS ADMINISTRATION 117. PRINCIPLES OF ACCOUNTING. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 10; Tu., 2 and Tu. Th., 9; Th., 2.
MR. HARGEST AND MR. BOWMAN

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING. A study of the difficulties encountered in actual accounting practice, and the theoretical considerations that govern in distinguishing sound from unsound policies in the determination of valuations, reserves, classifications of profit-and-loss items, and allocation between accounting periods, etc.

Indivisible course.

Through the year. Tu. Th. S., 10 and 11. MR. HARGEST

BUSINESS ADMINISTRATION 128. COST ACCOUNTING. A study of cost-finding systems, with special reference to basic principles in accounting for materials, labor and burden. Emphasis is placed upon the use of forms and special books and the preparation of appropriate statements.

Indivisible course.

Through the year. Tu. Th. S., 8. MR. HARGEST

BUSINESS ADMINISTRATION 227. AUDITING. After a careful analysis of the purpose and scope of the several classes of audits, the course deals with (1) methods of handling engagements, (2) audit procedure, (3) detection of errors and fraud, (4) study analysis and preparation of certificates and reports.

Through the year. MR. HARGEST

Omitted, 1946-47.

BUSINESS ADMINISTRATION 237. ADVANCED ACCOUNTING. The theory and practice of accounting for branches, mergers, receiverships, estates and trusts, consolidated statements, budgets, municipal accounts and other topics of an advanced nature.

Through the year. MR. HARGEST

Omitted, 1946-47.

ECONOMICS

ECONOMICS 11. PRINCIPLES OF ECONOMICS. Required for the degree of Bachelor of Business Administration.

ECONOMICS 12. INDUSTRIAL AND COMMERCIAL HISTORY. Required of freshmen in the Business Administration program.

ECONOMICS 13. MONEY AND BANKING. Required for the degree of Bachelor of Business Administration.

ECONOMICS 15. PUBLIC FINANCE.

ECONOMICS 21b. BUSINESS CYCLES.

ECONOMICS 22. LABOR PROBLEMS.

ECONOMICS 25. PROBLEMS IN PUBLIC FINANCE.

ECONOMICS 26. GOVERNMENT AND INDUSTRY.

ENGLISH AND PUBLIC SPEAKING

ENGLISH 11. COMPOSITION AND LITERATURE. The first semester is required of freshmen in the Business Administration program.

BUSINESS ADMINISTRATION 14b. BUSINESS ENGLISH. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.

Required of freshmen in the Business Administration program.

Half course. Second semester. M. W. F., 11 and 12.

MR. ANDERSON, MR. LETENDRE AND MR. MARBLE

BUSINESS ADMINISTRATION 17a. PUBLIC SPEAKING. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Required for the degree of Bachelor of Business Administration.

Half course. First semester. M. W. F., 11. MR. ILLINGWORTH

BUSINESS ADMINISTRATION 17b. PUBLIC SPEAKING. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.

Prerequisite: Business Administration 17a.

Half course. Second semester. M. W. F., 11. MR. ILLINGWORTH

GEOGRAPHY

GEOGRAPHY 10. PRINCIPLES OF GEOGRAPHY.

GEOGRAPHY 16. ECONOMIC GEOGRAPHY.

HISTORY AND GOVERNMENT

HISTORY 12b. AMERICAN GOVERNMENT.

HISTORY 17. INTRODUCTION TO UNITED STATES HISTORY.

One of the above courses is required for the degree of Bachelor of Business Administration.

LAW

BUSINESS ADMINISTRATION 20. BUSINESS LAW. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments, agency, and forms of business organization.

Indivisible course.

Required for the degree of Bachelor of Business Administration.
Through the year. M. W., 2-3:15. MR. BREEN
Given as a half course in 1946-47.

MANAGEMENT

BUSINESS ADMINISTRATION 11a. FUNDAMENTALS OF BUSINESS. An orientation course designed to acquaint the student with the general characteristics and problems of American business; field trips to significant business concerns are arranged when feasible.
Required of freshmen in the Business Administration program.
Half course. First semester. Tu. Th. S., 8 and 9. MR. BOWMAN

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE. A unified year course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.
Indivisible course.
Required for the degree of Bachelor of Business Administration.
Through the year. M. W. F., 9. MR. LUCAS

BUSINESS ADMINISTRATION 112. INTRODUCTION TO PERSONNEL MANAGEMENT. An analysis of personnel problems as they appear in industry; with emphasis on the techniques of selecting, training and management of manpower.
Through the year. MR. GILSON
Omitted, 1946-47.

BUSINESS ADMINISTRATION 181a. INDUSTRIAL MANAGEMENT. A study of the techniques of executive control and the measures of managerial efficiency pertaining particularly to production control, standardization of operations, purchasing, inventories, selling and budgeting.
Half course. First semester. MR. HARGEST
Omitted, 1946-47.

BUSINESS ADMINISTRATION 182b. OFFICE MANAGEMENT. A survey of the principles of office procedure and management with special emphasis upon office organization and planning, departmental organization, standardization of equipment and methods, office forms, office costs and budget, and correspondence.

Half course. Second semester. MR. HARGEST
Omitted, 1946-47.

MATHEMATICS

BUSINESS ADMINISTRATION 13b. BUSINESS MATHEMATICS. An elementary course designed to give the necessary foundation for an understanding of the basic mathematical processes involved in business transactions.

Required of freshmen in the Business Administration program.
Half course. Second semester. Tu. Th. S., 8 and 9. MR. BOWMAN

MATHEMATICS 10 OR 11. FRESHMAN MATHEMATICS.

MERCHANDISING

BUSINESS ADMINISTRATION 124. PRINCIPLES OF MARKETING. An introductory survey of the economics of marketing including the mechanics of distribution, the characteristics of the marketing system, principles of merchandising; and the chief problems of marketing.

Through the year. MR. BOWMAN
Omitted, 1946-47.

BUSINESS ADMINISTRATION 23a. ADVERTISING. An analysis of the role of advertising in modern business and a study of advertising procedures with emphasis on the economic functions of advertising, market research, campaign planning, advertising media, preparation of copy, visualization, and layouts.

Half course. First semester. Tu. Th. S., 11. MR. BOWMAN

BUSINESS ADMINISTRATION 23b. SALESMANSHIP. A study of the basic principles of selling and of their application to problems of merchandising; the history of salesmanship, classification of the market, consumer motivation, and the techniques of selling.

Half course. Second semester. Tu. Th. S., 11. MR. BOWMAN

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester. Tu. Th. S., 9. Mr. Hall

PSYCHOLOGY

Psychology 11. General Psychology.

Psychology 190. Industrial Psychology.

Psychology 214. Test and Measurements Applied to Psychological and Educational Problems.

STATISTICS

Business Administration 16a. Business Statistics. Methods of analyzing and presenting statistical data with special reference to business and economic problems; applications of statistical methods to quantitative business and economic material, with practice in presentation of such data in tabular and graphic forms.

Required for the degree of Bachelor of Business Administration.

Half course. First semester. M. W. F., 12. Mr. Maxwell

To be offered through the year in 1947-48.

Mathematics 113. Statistics.

DEPARTMENT OF CHEMISTRY

Professor Bullock, Associate Professor Martell, Associate Professor MacGillavry, Mr. Martin

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and take at least two years' work in physics.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 11; Mathematics 10 or 11; English 11; one course in "group B" and foreign language.

Second year: Chemistry 12a, 13, 14b; Physics 11; Mathematics 12 or Physics 12, and a continuation of work in foreign language.

Third year: Chemistry 15, 16a and 19; and electives.

Fourth year: Five courses, chosen from the following: Chemistry 111, 112b, 212b, 214b, 215, 216a; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Chemistry 19, required of all chemistry majors, is essential for work in physiology. Two years of mathematics are required preparation for Chemistry 19 and for graduate work in chemistry. The same amount of mathematics is required for all who elect chemistry as a "major," and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students who intend to study medicine should elect course 11, 12a, and 15 which are required for admission to practically all "class A" medical schools. Courses 13 and 14b are strongly recommended if time allows.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratory Fees and Deposits."

GRADUATE WORK

The Department of Chemistry provides graduate students with training in the fundamental principles of chemistry sufficiently broad to prepare them adequately for a scientific career.

Requirements for advanced degrees cannot be met merely by pursuing a course of studies or by carrying on an investigation. Hence no definite course of graduate studies is outlined. Ordinarily, completion of the undergraduate program outlined above will be a prerequisite for graduate work in chemistry.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for either the master's degree or the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

COURSES IN CHEMISTRY

During the academic year 1946-47 the following courses were given: 11, 12a, 13b, 14, 15, 19, 110, 111, 112b, 214b, 215, 216a; 31, 33, 34, 35, 37.

In 1947-48 the following courses will be offered: 11, 12a, 13, 14b, 15, 16a, 19, 112b, 212b, 214b, 215, 216a, 321, 322, 33, 35, 36, 38, 315.

1. PRIMARILY FOR UNDERGRADUATES

11. General Chemistry. Systematic study of the elements and their principal compounds, and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for Chemistry 12, 13 and 14.

Divisible only by consent of instructor.

Through the year. M. W. F., 11; M., 2. Mr. Bullock

12a. Qualitative Analysis. Chiefly laboratory work, nine hours per week. Occasional lectures and recitations.

Prerequisite: course 11.

Half course. First semester. Tu. F., 2. Mr. Martin

13. Chemical Principles and Calculations. A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium.

Prerequisites: Chemistry 11 and 12.

Through the year. M. W. F., 9. Mr. Martin

Given in 1946-47 as a half course in the second semester only.

14. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Six hours of laboratory work, and one lecture per week.

Prerequisite: course 12.

Divisible for pre-medical students. The complete course is required for a major in chemistry.

Through the year. Tu. Th., 3:30. Mr. MacGillavry

To be replaced by 14b, Volumetric Analysis, and 16a, Gravimetric Analysis, in 1947-48.

14b. Volumetric Analysis. Required for a major in chemistry.

Half course. Second semester. Mr. MacGillavry

To be offered in 1947-48.

15. Organic Chemistry. Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties

of important organic compounds. Three lectures and three hours of laboratory per week.

Prerequisite: a grade of C—, or better, in Chemistry 11.

Through the year. M. W. F., 9; F., 2. MR. MARTELL

16a. GRAVIMETRIC ANALYSIS. Required for a major in chemistry.

Half course. First semester. MR. MACGILLAVRY

To be offered in 1947-48.

19. PHYSICAL CHEMISTRY. Principles of physical chemistry including atomic and molecular structure, gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance, electrode potentials, electrolysis and polarization, reaction kinetics, colloids.

Prerequisites: Chemistry 13b, 14, Mathematics 12, Physics 11.

Three hours of lectures and four hours of laboratory per week.

Required for a major in chemistry.

Through the year. Tu. Th., 10; Tu. F., 2. MR. MACGILLAVRY

110. ORGANIC SYNTHESIS. Laboratory work in the preparation of typical organic compounds. Open only to students who take or have taken courses 12 and 15.

Four and one-half hours of laboratory work per week.

Half course, continuing through the year. MR. BULLOCK

This course will not be offered after 1946-47.

111. DETECTION AND ANALYSIS OF ORGANIC COMPOUNDS. Chiefly laboratory work. Open to students who take or have taken Chemistry 110.

This course may be taken throughout the year four and one-half hours per week to supplement Chemistry 19, or 9 hours per week during the second semester.

Half course, continuing through the year. M., 2. MR. BULLOCK

112b. PHYSICO-CHEMICAL METHODS. An advanced laboratory course in physical chemistry.

Open to students who have taken or are taking Chemistry 19.

One lecture and six hours of laboratory work per week.

Half course. Second semester MR. MACGILLAVRY

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. HISTORY OF CHEMISTRY. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses.

Half course. Second semester. Hours to be arranged.

MR. MARTELL

Omitted, 1946-47.

214b. ADVANCED QUANTITATIVE ANALYSIS (including gas analysis). Lectures and laboratory work, nine hours of laboratory work per week.

Half course. Second semester. Tu. Th., 2. MR. BULLOCK

215. HONORS COURSE. Primarily for candidates for "honors in chemistry." STAFF OF THE DEPARTMENT

216a. INORGANIC AND ORGANIC SYNTHESIS. Preparation of pure materials. Chiefly laboratory work.

Half course. First semester. MR. MARTELL

3. PRIMARILY FOR GRADUATE STUDENTS

31. CHEMICAL STRUCTURE AND REACTION MECHANISMS. Lectures on the structure and properties of chemical substances from the viewpoint of resonance and electronic structure.

Three hours, through the year. MR. MARTELL

321. ADVANCED PHYSICAL CHEMISTRY. Lectures on the properties of real gases, crystalline solids, liquids, solutions of molecular compounds and strong electrolytes, in relation to chemical constitution. Homogeneous and heterogeneous equilibria, reaction kinetics, electrode potentials and processes, electrolytic conductance, surface phenomena—Atomic structure.

Three hours, through the year. MR. MACGILLAVRY

Omitted, 1946-47.

322a. ELEMENTARY QUANTUM MECHANICS. Lectures on the principles of quantum and wave mechanics, with applications to electronic theory and interpretation of spectroscopic data.
Three hours. First semester. MR. MARTELL
Omitted, 1946-47.

NOTE: Course 322a and course 322b together constitute a full year course.

322b. CHEMICAL THERMODYNAMICS. Lectures on the principles of classical and statistical thermodynamics, with applications to a wide variety of chemical phenomena.
Three hours. Second semester. MR. MARTELL
Omitted, 1946-47.

33. ADVANCED ORGANIC CHEMISTRY. Lectures on selected subjects in organic chemistry.
Two hours, through the year. MR. BULLOCK

34. ADVANCED INORGANIC CHEMISTRY. Lectures on selected topics in inorganic chemistry.
Two hours, through the year. MR. MARTIN

35. SEMINAR. Staff and graduate students. Reports on research work being carried on in the laboratory and reports and discussions of recently published work in related fields.
Once a week, through the year. W., 4.
STAFF OF THE DEPARTMENT

36. PRINCIPLES OF ANALYTICAL CHEMISTRY. Lectures on the theoretical basis of analytical chemistry.
Two hours, through the year. MR. MARTIN
Omitted, 1946-47.

37. HIGH POLYMERS. Lectures on selected topics of the chemistry of high molecular and colloidal materials.
Three hours. First semester. MR. MACGILLAVRY

38. CURRENT TOPICS IN CHEMICAL LITERATURE. Required of all students who have completed a year of graduate work.
Hours to be arranged. THE STAFF
New course, to be offered in 1947-48.

315. RESEARCH. THE STAFF

DEPARTMENT OF CLASSICAL LANGUAGES

PROFESSOR ————

Courses in Latin and Greek, which have been in abeyance during 1946-47 following the retirement of Professor Brackett, will again be offered in 1947-48.

Announcements will be made before the opening of the college in September, 1947, so that students will have the opportunity to enroll in such courses.

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, PROFESSOR MAXWELL, PROFESSOR LUCAS,
ASSOCIATE PROFESSOR HALL, ASSISTANT PROFESSOR HARGEST,
ASSISTANT PROFESSOR BOWMAN, VISITING LECTURER BOOTH,
VISITING LECTURER BREEN

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 16a, 112b, 117, 18, 124, 127, 20, 21b, 27a).

Economics 11 is a prerequisite to all other courses in economics except Economics 12, and is required of all majors in the department. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will be undertake the equivalent of more than two courses in this manner.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work, with instructors and in small intimate seminars, constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Sociology

An undergraduate major is not offered in sociology alone. Courses in sociology may be used in partial fulfillment of the requirements for a major in economics and sociology and in other subjects.

Sociology 11 is a prerequisite for other courses in sociology.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

Courses in Economics

During the academic year 1946-47 the following courses were given: Economics 11, 12, 13, 15, 140, 22, 25, 26, 205.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.

Indivisible course.

Through the year. M. W. F., 10 and 11. Mr. Lucas

12. Industrial and Economic History.

First Semester. A study of west European industry and commerce since about 1700, emphasizing developments in Britain, France, and Germany.

Second Semester. Industrial and commercial history of the United States. The period prior to 1860 is studied briefly. Chief attention centers on the rise of the country as an industrial and commercial power: problems of transportation, domestic and foreign trade, tariff policy, currency and finance, industrial combinations.

For freshmen and sophomores, others by permission of the instructor.

Through the year. M. W. F., 8; 9. Mr. Brandenburg

Business Administration 112. Personnel Management.

Business Administration 117. Accounting.

Business Administration 124a. Marketing.

Business Administration 127. Intermediate Accounting.

13. Money and Banking. The principles of money and banking with special reference to their functions in the present economy. The theory of value of money, control of the money market and the

problem of money and credit in the world economy are given detailed consideration.

Indivisible course.

Through the year. M. W. F., 10. MR. MAXWELL

140b. CONSUMER ECONOMICS. A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private non-commercial agencies, the government, and the cooperative movement.

Half course. Second semester. Tu. Th. S., 9. MR. HALL

15a. PUBLIC FINANCE. The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.

Half course. First semester. M. W. F., 9. MR. MAXWELL

BUSINESS ADMINISTRATION 16a. STATISTICS.

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE.

115b. FISCAL DEVELOPMENT OF THE UNITED STATES. This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of the municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts, shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.

Prerequisite: Economics 11, or concurrent enrollment.

Half course. Second semester. MR. MAXWELL

Omitted, 1946-47.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

BUSINESS ADMINISTRATION 20b. BUSINESS LAW.

21b. BUSINESS CYCLES. MR. HALL

Omitted, 1946-47.

205. Economic Theory. A survey of the growth of the economic ideas and institutions of the Western World, indicating the place of economic thought in the larger intellectual patterns; the developments of the last two hundred years are emphasized.
Through the year. M., 2-4; W., 2-3. Mr. Hall

210a. Economic and Social Reform. The historical and critical study of various programs.
Half course. First semester. M. W. F., 11. Mr. Brandenburg
Omitted, 1946-47.

211b. Comparative Economic Systems. A study of totalitarian economic systems; a comparison of antarchy and free capitalism in the modern world; changes in international economic techniques consequent on totalitarian economics.
Prerequisite: Economics 210a, or its equivalent.
Half course. Second semester. M. W. F., 11. Mr. Brandenburg
Omitted, 1946-47.

22. Labor Problems. A study of the development of worker and employer organizations, collective bargaining, industrial disputes and methods of prevention and settlement. The second semester is devoted largely to the study of legislative control of industrial relationships and the Social Security program.
Through the year. M. W. F., 11. Mr. Brandenburg

25b. Problems in Public Finance. This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other questions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.
Half course. Second semester. M. W. F., 9. Mr. Maxwell

26. Government and Industry. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.
Through the year. M. W., 2-3:30. Mr. Lucas

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE.
MR. HALL

28. RESEARCH IN SELECTED ECONOMIC PROBLEMS.

Includes departmental honors work and other individual projects completed for credit.
Hours as arranged. THE STAFF OF THE DEPARTMENT

29b. ECONOMICS OF TRANSPORTATION.
Omitted, 1946-47.

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL ECONOMIC POLICIES. MR. BRANDENBURG
Omitted, 1946-47.

SOCIOLOGY

COURSES IN SOCIOLOGY

During the academic year 1946-47 the following courses were given: 11, 24.

1. PRIMARILY FOR UNDERGRADUATES

11. PRINCIPLES OF SOCIOLOGY. Society and its fundamental inter-relationships; man's social nature, his personality development, his behavior in groups such a classes, nations, races; community organization; social interaction as seen in competition and coöperation; social change.
This course is essential to further study of sociology.
Through the year. Tu. Th. S., 10 and 11. MR. HALL

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

24. COMMUNITY ORGANIZATION AND THE SOCIAL WORKER.

A study of the structure and dynamics of the modern community: community institutions, their functions and inter-relationships; comparison of urban and rural community needs and organizations; brief consideration of the history and theory of social work; the place of the social worker in the community.

Prerequisite: Sociology 11, or approval of instructor.
Through the year. M. W. F., 9. MR. BOOTH

25a. THE FAMILY AND SOCIETY.

A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces in shaping the family, with particular reference to methods of coping with these problems.

Prerequisite: Sociology 11, or approval of instructor.
Half course. First semester.
Omitted, 1946-47.

26. MAJOR SOCIAL PROBLEMS.

A study of ethnic relations, juvenile delinquency, poverty and housing, in both the rural and the urban setting; an analysis of attempted and proposed solutions will be made.

Prerequisite: Sociology 11, or approval of instructor.
Half course. Second semester.
Omitted, 1946-47.

27a. EDUCATIONAL SOCIOLOGY.
Omitted, 1946-47.
See also: Economics 140b, 210a, 22, 28, 31.

COURSES IN EDUCATION

A description of the offerings in Education and a list of courses in Education will be found in the announcement of the Department of Psychology and Education.

DEPARTMENT OF ENGLISH

PROFESSOR DODD, PROFESSOR ILLINGWORTH, ASSOCIATE PROFESSOR MARBLE, ASSISTANT PROFESSOR ANDERSON, MR. LETENDRE, MR. MOORE AND MR. PARKER

English 11 through the year is required of all freshmen. In the second semester of the freshman year candidates for the Bachelor of Business Administration degree are assigned to special sections.

A major in English consists of seven courses in addition to English 11, including: English 13 or 147; 15; one semester of 18; one semester of 110 or 112; 113; 122; 131; one semester of 142. A student who expects to major in English should elect either elementary Greek or elementary Latin in the freshman year unless at least two units of one of these languages have been accepted for admission to the college.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

During the academic year 1946-1947 the following courses were given: 11, 12, 15, 18a, 110, 111, 121b, 122b, 124a, 125a, 142, 145, 147b.

1. PRIMARILY FOR UNDERGRADUATES

11. Composition and Literature. The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester emphasizes exposition; the second semester serves as an introduction to the short story, drama, and poetry. Throughout the year expository themes and frequent conferences with the instructor are required.

Required of freshmen.

Through the year. M. W. F., 9; 10; 11; Tu. Th. S., 9; 10; 11.
Mr. Anderson, Mr. Letendre, Mr. Marble,
Mr. Moore and Mr. Parker

12. Public Speaking. A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.

Through the year. M. W. F., 9. Mr. Illingworth

13a. SHAKESPEARE. A general survey of Shakespeare's works with the main emphasis on their value as literature.

Elective for junior and seniors.

Half course. First semester. Tu. Th. S., 11. MR. ANDERSON

Omitted, 1946-47.

15. A SURVEY OF ENGLISH LITERATURE. A course in English literature from its beginning to the Victorian era.

Through the year. M. W. F., 11. MR. MARBLE

16b. ADVANCED COMPOSITION. A critical study of the literary techniques of narration, description, argumentation and exposition. Supervised writing.

Open to juniors and seniors with permission of the instructor.

Half course. Second semester. Tu. Th. S., 10. MR. MOORE

Omitted, 1946-47.

18. THE BIBLE AS LITERATURE. First semester, Old Testament; second semester, New Testament.

Through the year. M. W. F., 10. MR. ILLINGWORTH

Given in the first semester only, 1946-47.

105b. EIGHTEENTH CENTURY. A study of English literature from the end of the Restoration Period to the beginning of the Romantic Movement.

Half course. Second semester. M. W. F., 10. MR. ANDERSON

Omitted, 1946-47.

110. VICTORIAN PROSE AND POETRY. Elective for juniors and seniors.

Through the year. M. W. F., 10. MR. MARBLE

111b. A SURVEY OF AMERICAN LITERATURE. A course in American literature from Puritan times to 1890, with the main emphasis on the writers of the nineteenth century.

Half course. Second semester. Tu. Th. S., 11. MR. ANDERSON

112b. THE POETRY OF TENNYSON AND BROWNING. Elective for juniors and seniors.

Half course. Second semester. M. W. F., 9. MR. MARBLE

Omitted, 1946-47.

To be omitted in 1947-48. To be offered in 1948-49.

113a. BRITISH DRAMA. From the mysteries and moralities to Barrie, Shaw and Galsworthy.

Open to freshmen.
Half course. First semester. Tu. Th. S., 10. MR. DODD
Omitted, 1946-47.

114a. ELIZABETHAN DRAMA. Elective for juniors and seniors.
Half course. First semester. M. W. F., 10. MR. MARBLE
To be omitted in 1947-48. To be offered in 1948-49.
Omitted, 1946-47.

117a. ENGLISH ROMANTIC POETRY. Wordsworth, Coleridge, Byron, Shelley, and Keats, with a consideration of the intellectual background of their time.
Half course. First semester. Tu. Th. S., 10. MR. MOORE
Omitted, 1946-47.

121b. BIOGRAPHY AND LETTERS. The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present.

This course is open only to upper classmen who are proficient in English.
Half course. Second semester. Tu. Th. S., 10. MR. DODD

122b. MODERN POETRY. A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition.

Open only to upper classmen who are proficient in English.
Half course. Second semester. Tu. Th. S., 9. MR. DODD

124a. AMERICAN DRAMA. A study of the American drama from colonial times to the present.

Open to freshmen.
Half course. First semester. Tu. Th. S., 10. MR. DODD

125a. THE SHORT STORY. Representative short stories in English and American literature.

Open to freshmen.
Half course. First semester. Tu. Th. S., 9. MR. DODD

126b. MODERN CONTINENTAL DRAMA. A companion course to British Drama.
Open to freshmen.
Half course. Second semester. MR. DODD
Omitted, 1946-47.

131a. CHAUCER. After a study of the text of two or three of the *Canterbury Tales,* the main works of Chaucer are read more rapidly. The student is also introduced to Middle English grammar and is given drill in reading Chaucer aloud.
Elective for juniors and seniors.
Half course. First semester. Tu. Th. S., 11. MR. ANDERSON

133b. LITERARY CRITICISM. Elective for juniors and seniors.
To be offered 1948-49. MR. MARBLE
Omitted, 1946-47. Not to be offered in 1947-48.

140a. THE APPRECIATION OF LITERATURE. An analysis of the principal types of literature as represented by such classics as Homer's "The Iliad," Aeschulus' "Agamemnon," Augustine's "Confessions," Dante's "Divine Comedy," Machiavelli's "The Prince," Erasmus' "In Praise of Folly," Villon's "Ballads," Cellini's "Autobiography," Montaigne's "Essays," and Goethe's "Faust."
Half course. First semester. Tu. Th. S., 9. MR. ILLINGWORTH
Omitted, 1946-47.

141b. THE AMERICAN NOVEL. A survey of the development of the American novel and a detailed study of representative works.
Half course. Second semester. M. W. F., 9. MR. LETENDRE
Omitted, 1946-47.

142a. THE ENGLISH NOVEL. A study of the novel from its beginning to Thomas Hardy.
Half course. First semester. M. W. F., 8. MR. ILLINGWORTH

142b. THE MODERN NOVEL. A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.
Half course. Second semester. M. W. F., 8. MR. ILLINGWORTH

145a. Stagecraft. A study of the principles and problems involved in producing plays. Practical experience will be given through laboratory work and public performances.

Half course. First semester. Tu. Th. S., 9. Mr. Illingworth

145b. Acting. Develops the actor from a close study of his basic requirements. An analysis of the emotions, "business," pantomime, and interpretation given in theory and practice.

Half course. Second semester. Tu. Th. S., 9. Mr. Illingworth

146b. Oral Interpretation of Literature. A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and pantomimic expression. The intellectual elements of vocal expression are studies with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. Second semester. Tu. Th. S., 9. Mr. Illingworth
Omitted, 1946-47.

147b. The Oral Interpretation of Shakespeare. The life of Elizabethan England with special emphasis on the theatre of Shakespeare. Recordings of such actors as Paul Robeson, Maurice Evans, John Gielgud, and Orson Wells. The plays to be read will include *Hamlet, Cymbeline, Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V.*, and *Richard II.*

Half course. Second semester. M. W. F., 10. Mr. Illingworth

DEPARTMENT OF FINE ARTS

Loring Holmes Dodd, *Professor of Rhetoric, Curator of Art, Chairman of the Department of Fine Arts.*

William Self, *Instructor in Music, Director of Musical Organizations.*

Charles H. Sawyer, *Director, Worcester Art Museum.*

Herbert Barnett, *Head of Department of Drawing, Painting and Sculpture, School of the Worcester Art Museum.*

With the coöperation of:

Henry M. Bosshard, *Professor of German.*

*David M. Dougherty, *Professor of Romance Languages.*

Robert S. Illingworth, *Professor of Dramatic Art.*

A student who intends to major in the visual arts or who intends to offer courses in the visual arts as a part of a major in another department is expected to take the course Fine Arts 1 before electing other courses in this field.

A major in the visual arts will include:

1) The basic course, Fine Arts 1, to be completed before the end of the sophomore year;
2) Fine Arts 111, Practical Art;
3) The equivalent of two other courses designated as "fine arts";
4) One course chosen from the following list: French 113, Greek 17, Spanish 113;
5) History 11, completed before the end of the sophomore year;
6) A semester course in literature in addition to the regular requirements in English for the A.B. degree for all students.

The group of courses chosen to constitute a major must be approved by the department in each case.

A major in music is not offered. Courses in music may be included in a major in the visual arts subject to approval by the department.

The courses listed below which are offered by the University in coöperation with the Worcester Art Museum are open to students of either institution.

COURSES IN FINE ARTS

During the academic year for 1946-47 the following courses in Fine Arts have been given: 1, 10, 11, 111, and Music 12.

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*Absent on leave.

1. PRIMARILY FOR UNDERGRADUATES

FINE ARTS 1a. INTRODUCTION TO ARCHITECTURE. An historical survey of architecture through the ages with special emphasis on modern times.

Open to freshmen.

To be omitted in 1947-48.

Half course. First semester. Tu. Th. S., 8:30 MR. SAWYER

FINE ARTS 1b. INTRODUCTION TO PAINTING. An historical survey of the development of painting in the Western World from Giotto to modern times. Classes meet at the Worcester Art Museum.

Open to freshmen.

Half course. Second semester. Tu. Th. S., 8:30 MR. SAWYER

Omitted, 1946-47.

FINE ARTS 10a. THE ART OF MY COUNTRY. American accomplishment in painting, sculpture and architecture. Illustrated lectures, assigned readings, field trips.

Open to freshmen.

First semester. M. W. F., 9. MR. DODD

FINE ARTS 11b. FRENCH AND ENGLISH PAINTING, 18TH AND 19TH CENTURIES. Field trips are required. Fine Arts 10 is a prerequisite for freshmen, who are admitted only in special cases, at the discretion of the instructor.

Half course. Second semester. M. W. F., 9. MR. DODD

FINE ARTS 13b. PAINTING IN EUROPE IN THE 17TH CENTURY. The trends that led, among others, to El Greco and Velasquez, Rembrandt, and Hals, Rubens and Van Dyck. Field trips.

Half course. Second semester. M. W. F., 9. MR. DODD

Omitted, 1946-47.

FINE ARTS 15b. THE ITALIAN RENAISSANCE. Painting, sculpture, and architecture in the era of Italy's greatest achievements in the arts. Field trips.

Half course. Second semester. MR. DODD

Omitted, 1946-47.

MUSIC 12. A SURVEY COURSE. The course begins with the study of the fundamentals of music, rhythm, melody and form. The development of music through its primitive stages, and in the folksongs of the Middle Ages, is traced to the genesis of the sonata-form, and to the contemporary scene. The Vienna classicists, the romantic movement, the rise of impressionism, the so-called modernists are treated in the various types of music to be heard in concert hall, opera house, and over the radio.

An indivisible course, except that qualified students may be admitted at the beginning of each semester with the consent of the instructor.

Elective for sophomores, juniors, and seniors.

Through the year. M. W. F., 11 and 12. MR. SELF

FINE ARTS 111. PRACTICAL ART—DRAWING AND PAINTING. This course is designed to develop the individual creative ability of the student and to provide him with a technical proficiency in the various media of artistic expression. Drawing and painting from the cast and model; still life painting; lectures and assigned reading.

Students electing this course are charged a fee of $10 each semester in addition to the regular tuition. There is also an initial expense estimated at about $10 for materials, and a slight expense for replacement as the course progresses through the year.

Through the year. Six hours per week at the School of the Worcester Art Museum. M. Tu., 2-5. MR. BARNETT

FRENCH 113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, and literature of France, from the Middle Ages to the present time, given in coöperation with the Worcester Art Museum.

Omitted, 1946-47.

GERMAN 141. GERMANIC CIVILIZATION. MR. BOSSHARD

Omitted, 1946-47.

SPANISH 113. INTRODUCTION TO LATIN-AMERICAN CIVILIZATION. A survey of the art, history, and literature of the Latin-American countries from pre-conquest times to the present day. Weekly two-hour meetings at the Worcester Art Museum are divided between lectures and the showing and discussing of lantern slides and photographs. A third hour weekly, at the college, is required of undergraduates. A reading knowledge of Spanish, though highly desirable, is not a prerequisite for this course.

Omitted, 1946-47.

ENGLISH 145a. STAGECRAFT. MR. ILLINGWORTH
Half course, First semester. Tu. Th. S., 9.

COURSES IN FRENCH

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

COURSES IN GEOGRAPHY

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of the catalog under the general heading, The Graduate Section and the special heading, The Graduate School of Geography. The courses which were given in 1946-47, and the offerings for 1947-48 are listed below.

COURSES IN GEOGRAPHY

1. PRIMARILY FOR UNDERGRADUATES

10. PRINCIPLES OF GEOGRAPHY. An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world.

Through the year. M. W. F., 10. MR. WARMAN

12. INTRODUCTION TO METEOROLOGY AND CLIMATOLOGY. Elements of meteorology and climatology with practical exercises and emphasis on most recent theories.

Through the year. Tu. Th. S., 8. MR. WARMAN

16. ECONOMIC GEOGRAPHY. A study of the distribution of people and of their economic activities organized on a regional basis, beginning with North America and continuing through the other continents.

Through the year. Tu. Th. S., 9. MR. MURPHY

18a. GEOGRAPHY OF WORCESTER AND VICINITY. A field and laboratory course.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Half course. First semester. M. W. F., 9. MR. LOUGEE

Omitted, 1946-47.

18b. GEOGRAPHY OF NEW ENGLAND.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Half course. Second semester. M. W. F., 9. MR. LOUGEE

182a. GEOGRAPHY OF NORTH AMERICA. A systematic regional treatment of the physical, economic, and cultural geography of North America.

Half course. First semester. Tu. Th. S., 8. MR. WARMAN

Omitted, 1946-47.

To be omitted in 1947-48. To be offered in 1948-49.

191. CARTOGRAPHY AND GRAPHICS. Preparation of maps, graphs, charts, and block drawings.

Through the year. M., 3-5; W., 12. MR. BURNHAM

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

27a. HUMAN GEOGRAPHY. Considers influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately and in their mutual interaction upon the economic, social, and political development of peoples and states.

Juniors of superior standing and seniors may be accepted, by special permission.

Half course. First semester. M. W. F., 11. MR. EKBLAW

27b. CULTURAL GEOGRAPHY. Summarizes the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.

Juniors of superior standing and seniors may be accepted, by special permission.

Half course. Second semester. M. W. F., 11. MR. EKBLAW

201. POLITICAL GEOGRAPHY. Study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.

Through the year. Tu. Th. S., 10. MR. VAN VALKENBURG

20b. Geography in Education. A survey of geography in the present-day American school system, designed to meet the needs of those expected to teach geography.

This class will probably meet in the late afternoon so that teachers in public and private schools may be able to attend.

Half course. Second semester. M., 4-6. Mr. Warman
To be omitted in 1947-48. To be offered in 1948-49.

3. PRIMARILY FOR GRADUATE STUDENTS

30. Seminar. Hours to be arranged. The Staff

32. Regional Climatology. A study of the climates of the world by major regional examples.
Two hours, through the year. M. W., 8. Mr. Van Valkenburg

33a. Soil Geography. Reviews development and character of soils, their distribution and economic significance, in the light of their geographical relationships.
Three hours, first semester. M. W. F., 9. Mr. Ekblaw
To be omitted in 1947-48. To be offered in 1948-49.

33b. Land Utilization and Planning. Outlines relationships that physical and cultural factors bear to purpose and pattern of land, uses, conservation of land resources, and basic elements of land planning.
Three hours, second semester. M. W. F., 9. Mr. Ekblaw
To be omitted in 1947-48. To be offered in 1948-49.

34a. Biogeography. Geographic significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to factors and habitat.
Three hours. First semester. M. W. F., 10. Mr. Ekblaw
Omitted, 1946-47. To be offered in 1947-48.

34b. Life Zones and Regions. Major life zones, plant associations, and animal societies, regionally considered in relation to the elements of climate and terrain; and their effect on man's activities.
Three hours. Second semester. M. W., 10. Mr. Ekblaw
Omitted, 1946-47. To be offered in 1947-48.

36. PROBLEMS IN ECONOMIC GEOGRAPHY. An advanced study of economic geography, dealing especially with mining, agriculture, and manufacturing. Emphasis upon research methods and techniques.
Two hours, through the year. M. W. F., 10. MR. MURPHY

300. PH.D. SEMINAR. Hours to be arranged.
MR. VAN VALKENBURG

314. REGIONAL PHYSIOGRAPHY OF WESTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory in map interpretation.
Two hours of lecture and two hours in laboratory weekly.
Through the year. Tu. Th., 9. MR. LOUGEE
Omitted, 1946-47. To be offered in 1947-48.
In 1948-49 the Regional Physiography of the Eastern Hemisphere will be studied.

361a. URBAN GEOGRAPHY. The modern city from the viewpoint of geography.
First semester. Tu. Th., 11. MR. MURPHY
Omitted, 1946-47. To be offered in 1947-48.

371b. POPULATION PROBLEMS.
Two hours, second semester. W., 2; F., 1. MR. FAWCETT
Will not be offered in 1947-48.

381b. POLITICAL GEOGRAPHY OF THE BRITISH EMPIRE.
Two hours, second semester. Tu. Th., 2. MR. FAWCETT
Will not be offered in 1947-48.

383a. GEOGRAPHY OF SOUTH AMERICA. Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations.
Two hours, first semester. Tu. Th., 1. MR. WARMAN

383b. GEOGRAPHY OF MIDDLE AMERICA. Analysis of the major geographic regions of South America; special geographic problems of South American governments.
Two hours, second semester. Tu. Th., 2. MR. WARMAN

312b Physiog. of No. Amer. Mr. Lougee
- T. Th. 8; F. 10, & S.

385. GEOGRAPHY OF EURASIA. Intensive survey of the continents and detailed study of selected regions.
Through the year. M. W., 2. MR. VAN VALKENBURG
Omitted, 1946-47. To be offered in 1947-48.

387a. GEOGRAPHY OF THE PACIFIC AREA. A regional treatment of the human geography of the islands of the Pacific.
First semester. Tu. Th., 11. MR. MURPHY

391. CARTOGRAPHIC PRESENTATION OF THE GEOGRAPHICAL LANDSCAPE.
Through the year. M., 3-5. MR. RAISZ
Omitted, 1946-47. To be offered in 1947-48.

394a. FIELD METHODS AND STUDIES. Required of every graduate student.
First three weeks of every year. THE STAFF

RESEARCH COURSES

200.	GEOGRAPHY IN EDUCATION.	MR. WARMAN
310.	REGIONAL PHYSIOGRAPHY.	MR. LOUGEE
320.	CLIMATOLOGY.	MR. VAN VALKENBURG
330.	SOILS GEOGRAPHY.	MR. EKBLAW
340.	BIOGEOGRAPHY.	MR. EKBLAW
350.	AGRICULTURAL GEOGRAPHY OR LAND UTILIZATION.	MR. EKBLAW
360.	ECONOMIC GEOGRAPHY.	MR. MURPHY
370.	HUMAN GEOGRAPHY AND DEMOGRAPHY.	MR. EKBLAW
380.	REGIONAL GEOGRAPHY.	THE STAFF
390.	POLITICAL GEOGRAPHY.	MR. VAN VALKENBURG

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

During the academic year 1946-47 only course 12 was given.

1. PRIMARILY FOR UNDERGRADUATES

12. GENERAL GEOLOGY. A course dealing with the origin of scenery, the classification of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period or field trip weekly. Attendance on one out-of-town field trip lasting two to four days is required.

Indivisible course.

Through the year. M. W. F., 8; Th. 2. MR. LITTLE

121b. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS. An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. Two class meetings and one laboratory period weekly. General geology is not a prerequisite for this course. MR. LITTLE

Omitted, 1946-47.

122b. ECONOMIC GEOLOGY. A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course. Two class meetings and one laboratory period weekly.

Geology 121 is a prerequisite. MR. LITTLE

Omitted, 1946-47.

DEPARTMENT OF GERMAN

PROFESSOR BOSSHARD, ASSOCIATE PROFESSOR PALMER

The Department of German provides undergraduate courses for the acquisition of a reading and speaking knowledge of German and for the study of German literature and Germanic civilization.

German 11, 12, 13 form a regular sequence leading to a reading knowledge.

The language requirement (See requirements for the Degree of Bachelor of Arts) may be fulfilled by German 13 or a literature course with their stated prerequisites. The Department may, when justified by the exceptional preparation or objectives of a student, permit German 123 to take the place of 13 for the fulfillment of the language requirement.

The seven courses required for a major should include the two literature courses, German 152 and 153, prerequisites to these courses, and one course in another language department. Elective courses should be approved by the Department.

Attention to correct pronunciation and writing is given in all language and literature courses. The recording machine and gramophone are used in all classes to assist in the acquisition of correct pronunciation.

The "Germanic Society" is an organization of students which provides lectures in English on various aspects of Germanic civilizations, literatures, and languages (Germany, Austria, Switzerland, Scandinavian countries, and Holland) and their relationship to American and English culture. Some evenings are reserved for reading, singing, and speaking German.

The Department of German has a chapter of the "Delta Phi Alpha" honorary German fraternity. Outstanding students of German may be invited to be members of the fraternity.

Courses in German

During the academic year 1946-47 the following courses were given: 11, 12, 13, 19, 152.

1. PRIMARILY FOR UNDERGRADUATES

11. Reading Approach to German—For Beginners. Study of vocabulary, pronunciation, elements of grammar, composition, reading of easy prose. Indivisible course.

Through the year. M. W. F., 8 and 10; Tu. Th. S., 9.

Mr. Bosshard and Mr. Palmer

12. Intermediate German (Second Year). Reading, translation, review of grammar essentials, exercises in composition and pronunciation.

Prerequisite: German 11 or two years of high school German.
Indivisible course.
Through the year. M. W. F., 9; Tu. Th. S., 9, 10. Mr. Palmer

13. Readings in German Literature (Third Year). Introduction of the student to a few of the outstanding works of German literature. Additional readings in the social sciences. Exercises in composition.
Prerequisites: German 12, 123, or its equivalent.
Through the year. Tu. Th. S., 9 and 10. Mr. Bosshard

123. Conversational German. Practice in speaking and writing German. Recommended for those students who plan to major in German or for non-majors who have a real interest in attaining fluency in the language.
Prerequisite: German 11, or its equivalent.
Through the year. Tu. Th. S., 8. Mr. Palmer
Omitted, 1946-47.

152. Literature: The Age of Enlightenment and the Classical Period. Lectures, reading, reports.
Prerequisite: German 13 or satisfactory record in an achievement test in reading, writing and the oral use of the language.
Through the year. M. W. F., 9. Mr. Bosshard
To be omitted in 1947-48. Offered in alternate years.

153. Literature: The Nineteenth and the Twentieth Centuries. See German 152. Mr. Bosshard
Omitted, 1946-47. Offered in alternate years.

19. Seminar for Honor Students. Independent reading of literature to supplement the work done in course. Oral and written reports.
Through the year. Three hours a week. Mr. Palmer

COURSES NOT REGULARLY OFFERED

111. Speaking Approach to German. For Beginners. Credit for two courses, 8 class meetings per week.

132. Advanced Grammar and Composition.

141. Germanic Civilization. An illustrated lecture course on the cultural development of northern Europe from Indo-European times through the Renaissance to the Classical period.

142. German Classics in Translation.

161a. Lyric Poetry. A survey of German lyric poetry.

162b. Goethe's Faust. Fragment, First and Second Part.

HEALTH EDUCATION FOR UNDERGRADUATE WOMEN

A REQUIRED COURSE OFFERED EACH ACADEMIC YEAR

Health Education for Undergraduate Women. A study of the principles of healthful living which will aid the student in developing attitudes and habits necessary for happiness and service in personal, family, and community life.

A non-credit course.

First semester. Th., 12-1. Miss Hughes

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Lee, Professor Jordan, Assistant Professor Hayden, Assistant Professor Campbell

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give a broad knowledge of the more significant aspects, political, social and intellectual, of the growth of the leading countries of the world. In addition, the department offers introductory work in the field of government and political science.

History 11, primarily for freshmen, is open to members of all classes and must be taken as early as possible by students majoring in the department. Other courses whose numbers begin with (1) may, however, be elected by non-majors who have not previously taken History 11.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis it places upon the various aspects of international relations. Without neglecting the political, economic and social history of preceding centuries, particular stress is laid on the modern diplomacy and international relations of the United States, Europe, the British Empire, and the Far East.

The various courses offered in the department are so arranged, in cycles of two or three years, that students working for the doctorate will be able to secure a full program each year. A feature of the method of instruction in the department is the frequent informal conferences beween instructor and student, and the seminar method in many of the courses.

Particular attention is called to related work offered in the fields of geography and economics and to the announcement of the Division of International Affairs.

COURSES IN HISTORY AND INTERNATIONAL RELATIONS

During the academic year 1946-47 the following courses were given: 11, 12b, 15, 17; 28, 29, 201, 230, 231; 36, 302a, 332, 340.

1. PRIMARILY FOR UNDERGRADUATES

11. Introduction to the History of Europe. A survey of European civilization from the Roman Empire to the present time.
Open to freshmen. See departmental announcement above.
Through the year. Tu. Th. S., 10. Mr. Lee and Mr. Jordan

12a. European Government.
Half course. First semester. M. W. F., 12. Mr. Lee
Omitted, 1946-47.

12b. American Government. A study of the structure and functions of American Government with some attention to the problems of modern administration.
Half course. Second semester. M. W. F., 12. Mr. Hayden

15. History of England. Dealing primarily with British his-

tory since the fifteenth century this course forms a background for the study of American history and English literature.
Through the year. M. W. F., 10. MR. JORDAN

17. INTRODUCTION TO UNITED STATES HISTORY. A survey from the age of discovery to the present, with emphasis upon political and economic developments.
Through the year. Tu. Th. S., 9. MR. CAMPBELL

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20. EUROPE SINCE 1830. The development of the major European nations with special emphasis on the period from 1870 to the present.
Through the year. Tu. Th. S., 11. MR. LEE
Omitted, 1946-47. To be offered in 1947-48.

22. THE PACIFIC AND THE FAR EAST. The course deals with China, Japan, Russia in Asia, the islands of the Pacific, and the Far Eastern policies of the United States.
Omitted, 1946-47.

23. AMERICAN DIPLOMATIC HISTORY. The history of the foreign relations of the United States from 1783 to the present.
Through the year. M. W. F., 10. MR. HAYDEN
Omitted, 1946-47. To be offered in 1947-48.

27b. RECENT POLITICAL THOUGHT. The conflicting ideologies of our time in their development since the middle of the 19th century. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.
Half course. Second semester. M. W. F., 9. MR. JORDAN
Omitted, 1946-47. To be offered in 1947-48.

28. HISTORY OF THE BRITISH EMPIRE. In the second semester the course will deal with developments and problems since 1900.
Through the year. M. W. F., 9. MR. JORDAN
Given in 1946-47. To be omitted in 1947-48.

29. RUSSIA AND THE NEAR EAST. Beginning with the Byzantine empire and the Kievan state, special attention is given to recent

times, particularly to the Russian revolution of 1917 and the Soviet regime since that date.

Through the year. Tu. Th. S., 11. MR. LEE

Given in 1946-47. To be omitted in 1947-48.

201. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Beginning with a brief survey of the European background of American ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.

Through the year. Tu. Th., S., 11. MR. CAMPBELL

Given in 1946-47. To be omitted in 1947-48.

205a. INTRODUCTION TO POLITICAL PHILOSOPHY. A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.

Half course. First semester. M. W. F., 9. MR. JORDAN

Omitted, 1946-47. To be offered in 1947-48.

214. CONSTITUTIONAL HISTORY OF THE UNITED STATES. Major emphasis is placed on the historical development and the present interpretations of our basic law.

Through the year. Tu. Th. S., 10. MR. CAMPBELL

Omitted, 1946-47. To be offered in 1947-48.

230. THEORY AND PRACTICE OF INTERNATIONAL RELATIONS. International rivalries in the 20th century examined, with attention to supposed genuine national interests. Their worldwide nature is emphasized, and the failure of past efforts to establish order analyzed as a basis for estimating the practicality of modern policies and proposals.

Through the year. M. W. F., 11. MR. HAYDEN

231. INTERNATIONAL LAW AND ORGANIZATION. A survey of the historic doctrines of international law and their application to modern conditions is followed by a study of the various institutions created to handle international economic, social, and political problems, especially those concerned with the pacific settlement of disputes and the establishment of world order.

Through the year. First semester, M. W. F., 12; second semester, M. W., 2-3:30. MR. HAYDEN
Given in 1946-47. To be omitted in 1947-48.

234a. AMERICAN COLONIAL HISTORY TO 1776. This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.
Half course. First semester. Tu. Th. S., 11.
Omitted, 1946-47.

235b. HISTORY OF BRITISH INDIA.
Half course. Second semester. MR. JORDAN
Omitted, 1946-47.

242a. THE UNITED STATES IN THE TWENTIETH CENTURY. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Half course. First semester. MR. CAMPBELL
Omitted, 1946-47. To be offered in the Summer Term, 1947.

3. PRIMARILY FOR GRADUATE STUDENTS

302a. MODERN IMPERIALISM. An attempt to determine whether certain people must or should rule over others, in the light of past experience and contemporary realities.
Half course. First semester. M., 2-4. MR. HAYDEN

320a. ENGLAND SINCE 1865. The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.
Half course. First semester. W., 2-4. MR. JORDAN
Omitted, 1946-47. To be offered in 1947-48.

332. EUROPEAN INTERNATIONAL RELATIONS SINCE 1870. A study of the diplomatic history of Europe from the Franco-Prussian war to the present time.
Through the year. Th., 2-4. MR. LEE

340. PROBLEMS OF DEMOCRACY IN THE UNITED STATES, 1880-1920. An analysis of the fundamental factors making for change in

American economic and political thought at the turn of the century is followed by an intensive study of the progressive movement.

Through the year. Tu., 2-4. Mr. Campbell

36. Seminar. Introduction to bibliography and criticism and discussion of research problems being investigated by graduate students and faculty.

Required for all graduate students.

Half course, through the year. Hour to be arranged.

Staff of the Department

GRADUATE RESEARCH AND THESIS COURSES

Research courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

351. Research. 361. Thesis.	In the History and International Relations of Europe.	Mr. Lee
352. Research. 362. Thesis.	In the History and International Relations of England and the British Empire.	Mr. Jordan
353. Research. 363. Thesis.	In the History of the United States.	Mr. Campbell
354. Research. 364. Thesis.	In International Relations.	Mr. Hayden

DEPARTMENT OF MATHEMATICS

Professor Melville, Mr. Stone

The department of mathematics offers courses at the undergraduate level only.

Freshman mathematics includes algebra, trigonometry and elementary analytical geometry. This course is required of every student whose major subject is a science. A second year course continues the study of analytical geometry and gives an introduction to differential and integral calculus. The completion of this course gives the minimum mathematical training required for a major in physics or chemistry. The third year course is devoted to the further study of calculus, including differential equations.

Following the three fundamental courses, the offerings vary, depending on the needs and wishes of the students.

A major in mathematics will normally include two or three courses in physics, although other appropriate combinations of subjects will be approved.

COURSES IN MATHEMATICS

During the academic year 1946-47 the following courses were given: 10, 11, 12, 13, 14a, 113b.

1. PRIMARILY FOR UNDERGRADUATES

NOTE: Only freshmen or sophomores may elect Mathematics 10 or 11 for full credit. Juniors or seniors who complete the work of either of these courses will receive credit for two-thirds of a course.

10. FRESHMAN MATHEMATICS. Algebra, trigonometry and graphics.

Open to freshmen.

Through the year. M. W. F., 8; Tu. Th. S., 8 and 11. MR. STONE

11. FRESHMAN MATHEMATICS. For students whose records in placement examinations justify the expectation that they will be able to proceed more rapidly than those assigned to course 10. Algebra, trigonometry and elementary analytical geometry.

Open to freshmen.

Through the year. Tu. Th. S., 8 and 9.

MR. MELVILLE AND MR. STONE

12. SECOND YEAR COURSE. Analytical geometry, introduction to differential and integral calculus.

Through the year. M. W. F., 12. MR. MELVILLE

13. CALCULUS AND DIFFERENTIAL EQUATIONS.

Through the year. Tu. Th. S., 9. MR. MELVILLE

14a. SELECTED TOPICS FROM ANALYSIS AND GEOMETRY.

First semester. M. W. F., 8. MR. MELVILLE

15a. ADVANCED ALGEBRA AND THEORY OF EQUATIONS.
Omitted, 1946-47.
MR. MELVILLE

113b. STATISTICS. MR. MELVILLE
Second semester. Tu. Th. S., 8.

16. ADVANCED ANALYTICAL GEOMETRY IN TWO AND THREE DIMENSIONS. MR. MELVILLE
Omitted, 1946-47.

COURSES IN PHILOSOPHY

PRESIDENT JEFFERSON

Courses in philosophy are designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. They are primarily inclusive rather than particular, and their ultimate aim is to reach a unified view of the world and of human experience.

PHILOSOPHY 11. INTRODUCTION TO PHILOSOPHY. A study of the nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.
Not open to freshmen.
Indivisible course.
Given as Psychology 180 in 1946-47. To be offered in 1947-48.
Three hours, through the year.

PHILOSOPHY 12. HISTORY OF PHILOSOPHY. A study of the movements of philosophical thought from the early Greeks to the present day and an analysis of the place of philosophy in the development of Western culture.
Not open to freshmen.
Indivisible course.
Omitted 1946-47. To be offered in 1948-49.
Three hours, through the year.

DEPARTMENT OF PHYSICS

Professor Roope, Assistant Professor Gunter

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 18, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition to electives in physics, Mathematics 13 and Chemistry 19 are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 is a prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15 and 17 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Courses leading to the degree of Doctor of Philosophy and Master of Arts are omitted for the present.

Courses in Physics

During the academic year 1946-47 the following courses were given: 11, 15, 16, 17, 18; 124, 22, 24.

During the academic year 1947-48 the following courses will be offered: 11, 15, 16, 18a, 18b, 22, 23.

PRIMARILY FOR UNDERGRADUATES

11. General Physics. Mechanics, heat, electricity and magnetism, wave motion, sound, and light.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; M. or Tu. or W., 2. Mr. Roope

13. HISTORY OF PHYSICS. MR. ROOPE
Omitted, 1946-47.

15. HEAT AND THERMODYNAMICS. This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Through the year. M. W. F., 9. MR. ROOPE

16. OPTICS. The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, particularly ground and aerial cameras. The second semester is devoted to the principles and application of physical optics.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

17. INTRODUCTION TO MODERN PHYSICS. An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.

Through the year. M. W. F., 11. MR. ROOPE

18a. THEORETICAL SPECTROSCOPY. The origin of line and band spectra in both emission and absorption spectrophotometry is treated.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Physics 16 and 17 are desirable but not required.

Half course. First semester. Tu. Th. S., 11. MR. GUNTER
Omitted, 1946-47.

18b. EXPERIMENTAL SPECTROSCOPY. The theory and applications of the optical and electrical instruments used in experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.

Prerequisites: Physics 16 or Physics 18a and Mathematics 12 (may be taken concurrently).

Physics 17 is desirable but not required.

Half course. Second semester. Tu., 11; Tu. Th., 2. MR. GUNTER

124. FUNDAMENTALS OF ELECTRONICS. This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th. S., 11; Tu. or Th., 2. MR. GUNTER

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. THEORETICAL MECHANICS.

Prerequisite: Mathematics 12.

Mathematics 13 is desirable but not required.

Through the year. M. W. F., 11. MR. ROOPE

23. ELECTRICITY AND MAGNETISM. The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12.

Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 9; Tu. or Th., 2. MR. GUNTER

Omitted, 1946-47.

24. ADVANCED ELECTRONICS. MR. GUNTER

25. ADVANCED THERMODYNAMICS. MR. ROOPE

Omitted, 1946-47.

DEPARTMENT OF PSYCHOLOGY AND EDUCATION

PSYCHOLOGY

PROFESSOR JONES, *Chairman,* PROFESSOR BARKER, ASSOCIATE PROFESSOR BROWN, ASSOCIATE PROFESSOR BELL, ASSOCIATE PROFESSOR (*Affiliate*) RODNICK, ASSISTANT PROFESSOR GILSON, MR. PHILLIPS

The psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the university, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories, under the direction of Edmund C. Sanford, and John W. Baird, increased rapidly in size and in research possibilities for experimental psychology. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene by G. Stanley Hall and William H. Burnham. These earlier emphases have stood the test of time and the present interests in the department represent a continuation and development of these earlier emphases. The present major fields of instruction and research are: experimental and physiological, child, educational, and clinical psychology. Instruction in these fields is supported by work in personality and character development, social psychology, applied psychology, tests, and guidance.

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give as broad a knowledge as possible of the more significant aspects of psychology. This includes courses leading to graduate work in psychology and also courses involving the application of psychological principles to education and to industry.

Students majoring in the department include those who plan to engage in graduate work in psychology, those interested in general psychology but not contemplating graduate work, and those interested in educational psychology and education. The requirements for each of these classes are somewhat different, and students who are interested should apply to the department for detailed requirements.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. First year graduate students having had adequate training in psychology as indicated by an undergraduate major in psychology, or in a closely allied field supplemented by work in psychology, may devote full time to graduate courses and research.

The degree of Master of Arts. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology including experimental and statistical method. The customary program is 5 courses, including experimental psychology, statistics, and three additional courses supplemented by the writing of a thesis in the area of special interest.

The degree of Doctor of Philosophy. Only graduate students with superior records are encouraged to become candidates for the degree of Doctor of Philosophy. Such students will devote about half their time to course work and half to research during their second year, and may expect to give the major part of their time to research after the second year. At the end of the second year of graduate work each student must demonstrate his general competence in psychology by passing with distinction preliminary examinations in child, educational, and experimental psychology, in personality dynamics and abnormal behavior. In addition the student is required to demonstrate actual ability to work independently in some field of psychology by conducting original research which usually extends over two years of full time study. (For language and other requirements for the degree, see general requirements for advanced degrees elsewhere in the catalog).

The Program in Clinical Psychology. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in psychology apply as mentioned above. In addition the student will be required to demonstrate mastery of the use of clinical techniques. To provide instruction in such techniques the department offers courses in clinical methodology with a wide variety of practical experience in coöperating institutions, clinics, and agencies.

One year of internship in a clinical institution is included in this four-year program.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations which in this case will include an examination in clinical psychology.

Research for the dissertation should normally be started during the year of internship and be completed, during the fourth year, at the University.

In this program a Master's degree will be awarded upon the satisfactory completion of two years of study and the presentation of an acceptable thesis. Students who, after an adequate trial during the first semester, are in the opinion of the faculty lacking in the necessary personal qualities for clinical work will be so advised and given an opportunity to adjust their program accordingly.

A Veterans' Administration Guidance Center serving central Massachusetts was organized in connection with the department in November, 1945. Qualified graduate students may have an opportunity for applied psychological work at the Center if their professional qualifications warrant it.

Courses in Psychology

During the academic year 1946-47 the following courses in psychology were given: 11, 190, 203, 204, 208a, 210, 212, 214, 300, 301, 302, 304, 313, 318, 319, 330b, 340, 350. See also courses in Education.

1. PRIMARILY FOR UNDERGRADUATES

11. General Psychology. An introduction to the principles of human behavior.

Through the year. M. W. F., 10. Mr. Brown

190. Industrial Psychology. The application of psychological techniques to the problems of business and industry.

Through the year. Tu., 3-5; Th., 4-5. Mr. Gilson

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

201b. Educational Psychology. A study of psychological principles as they bear upon learning and other problems of education.

Half course. Second semester. M., 4-6. Mr. Jones

Omitted, 1946-47.

203. Introduction to Clinical and Abnormal Psychology. The first part of the course will be devoted to a study of the development of the normal and abnormal personality and a survey of the major types of abnormal behavior. The second part will consist of an introduction to clinical methods of diagnosis and therapy.

Prerequisite: Psychology 11.

Through the year. M. W. F., 11. Mr. Bell

204. Guidance in Childhood and Adolescence. Principles involved in vocational, educational, and personality guidance. Methods of guidance in elementary and secondary schools.

Through the year. S., 9-11. Mr. Bell

208a. Social Psychology. A survey of the main principles of social psychology including a study of selected experiments in culture, personality, and socialization.

Half course. First semester. M. W. F., 9. Mr. Barker

To be omitted in 1947-48.

209a. Child Psychology. A survey of the principles and problems of child psychology.

Half course. First semester. M. W. F., 9. Mr. Barker

Omitted, 1946-47.

210. Psychological Approach to Citizenship Development. A survey and evaluation of the experimental evidence in the field of character and citizenship development among children and adolescents.

Through the year. Tu., 4-6. Mr. Jones

To be offered in the first semester only in 1947-48.

212. Experimental Psychology. A general survey of experimental psychology involving detailed experience with laboratory apparatus. Six hours in the laboratory weekly.

Prerequisites: Biology 11, Psychology 11.

Through the year. M., 2; F., 2-4. Mr. Brown

214. Tests and Measurements Applied to Psychological and Educational Problems. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. Th., 4-6. Mr. Jones

3. PRIMARILY FOR GRADUATE STUDENTS

300. Genetic Psychology. A seminar in the basic principles of genetic psychology, special attention being given to native equipment, maturation, conditioning, and socialization.

Through the year. W., 7:30-9:30 P.M. Mr. Barker

301a. Advanced Clinical Psychology (I). The theory of and supervised practical work in non-projective techniques of psychological diagnosis.

Psychology 318 should be taken concurrently with this course.

First semester. M., 4-6. Mr. Bell

301b. Advanced Clinical Psychology (II). Principles of and practice of casework.

Prerequisite: Psychology 301a.

Second semester. Th., 2-4:30. Mr. Bell

302a. Advanced Clinical Psychology (III). The theory of a supervised practical work in projective techniques of psychological diagnosis.

Prerequisites: Psychology 301a and 301b.

First semester. Th., 2-4. Mr. Phillips

302b. Advanced Clinical Psychology (IV). The theory of and practice in the techniques of integrated clinical analysis.

Prerequisite: Psychology 302a.

Second semester. M., 4-6. Mr. Phillips

304. Advanced Experimental Psychology. A study of experimental methodology and techniques. In the first semester attention will be given to perceptual and motor behavior and in the second semester to personality and social behavior.

Through the year. M. W. F., 9. Mr. Brown and Mr. Barker

313. Statistical Methods. The purpose of this course will be

to give an understanding of and practice in the statistical methods most valuable in psychological research. Some attention will be given to setting up research studies involving statistical methods and to interpreting the results.

Through the year. W., 3-5. MR. JONES

317. METHODS OF PSYCHOTHERAPY. A critical study of methods of psychological treatment.

Through the year. Hours to be arranged.

Omitted, 1946-47.

318. DYNAMICS OF PERSONALITY AND ABNORMAL BEHAVIOR. Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnotism and allied phenomena.

Through the year. F., 4-6, and one additional hour to be arranged. MR. RODNICK

319. CHILD DEVELOPMENT (ADVANCED). A critical study of crucial experiments in child development.

Through the year. M. W., 10-11:30. MR. BARKER

Omitted, 1946-47.

330b. SENSORY PROCESSES. A study of the literature on vision, audition, touch, smell, and taste.

Second semester. Hours to be arranged. MR. BROWN

Offered in 1946-47 and in alternate years.

331b. THE LEARNING PROCESS. A study of the literature on conditioning and learning.

Second semester. Tu. Th., 9. MR. BROWN

Omitted, 1946-47.

To be offered in 1947-48.

339a. HISTORY AND MODERN VIEWPOINTS IN PSYCHOLOGY. A historical survey of the contributions to modern psychological theory.
First semester. Hours to be arranged. THE STAFF
Omitted, 1946-47.

340. DEPARTMENTAL SEMINAR.
THE STAFF, GRADUATE STUDENTS, AND VISITING SPEAKERS

350. RESEARCH IN PSYCHOLOGY. Individual direction of students in their research projects.
THE STAFF OF THE DEPARTMENT

EDUCATION

VERNON JONES, *Professor of Educational Psychology*

JOHN E. BELL, *Associate Professor of Educational Psychology*

With the coöperation of:

ROBERT S. ILLINGWORTH, *Professor of Dramatic Art*

HENRY J. WARMAN, *Assistant Professor of Geography*

In 1936 the trustees of the university voted the establishment of work in Education leading to the degree of Master of Arts in Education. The essence of the plan was that the professional work of prospective high school teachers should be concentrated largely in one year of graduate work following four years of liberal arts education. During this fifth year the Division of Education aims to provide (1) courses in educational psychology, guidance, and allied subjects, (2) added training in subject-matter in the field in which the student is preparing to teach, and (3) apprenticeship teaching under careful supervision.

It has become increasingly evident that candidates for the bachelor's degree who include a few courses in education in their undergraduate programs are not being adequately prepared to meet the demands for scholarly and professional training required by the better school systems. The fifth year plan is, therefore, recommended to all students who plan to enter the field of teaching at the secondary school level.

UNDERGRADUATE WORK

A limited number of courses will be open to juniors and seniors in the undergraduate division upon the consent of the instructor, but the department recommends that undergraduate students concentrate upon the subject-matter fields in which they desire to teach, reserving for the fifth year the professional work in the theory and practice of education.

In keeping with the general plan to offer in five years a well-rounded program of teacher training with emphasis on the professional aspects of the training in the fifth year, *an undergraduate major in education is not offered.*

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must complete not less than five year-courses in one of the above groups, or in a combination of groups approved by the Division of Education. At least one of the five year-courses must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the department. Changes in the proportion of education and subject-matter courses may be made by the department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis. The candidate must present a "thesis," or "special report," in which he demonstrates not only his grasp of the subject-matter which he plans to teach but also a mastery of the educational principles necessary for such teaching. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

Courses in Education

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

Psychology 201b. Educational Psychology. A study of psychological principles as they bear upon learning and other problems of education.
Half course. Second semester. M., 4-6. Mr. Jones
Omitted, 1946-47.

Psychology 204. Guidance in Childhood and Adolescence. Principles involved in vocational, educational, and personality guidance. Method of guidance in elementary and secondary schools.
Through the year. F., 4-6. Mr. Bell

205a. The Teaching of English. Methods of teaching poetry, drama, novel, short story, oral and written composition.
Half course. First semester. M., 4-6. Mr. Illingworth
To be offered in 1947-48.

Psychology 210. Psychological Approach to Citizenship Development. A survey and evaluation of the experimental evidence in the field of character and citizenship development among children and adolescents.
Through the year. Tu., 4-6. Mr. Jones
To be offered in the first semester only in 1947-48.

PSYCHOLOGY 214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.
Through the year. Th., 4-6. MR. JONES

GEOGRAPHY 20b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.
Half course. Second semester. M., 4-6. MR. WARMAN
Given in 1946-47. Offered in alternate years.

3. PRIMARILY FOR GRADUATE STUDENTS

308a. PRINCIPLES OF SECONDARY EDUCATION. A survey of the aims, responsibilities, and general methods in secondary education.
First semester. MR. JONES

PSYCHOLOGY 313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research. Some attention will be given to setting up research studies involving statistical methods and of interpreting the results.
Through the year. W., 3-5. MR. JONES

315. APPRENTICESHIP TEACHING. An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in cooperating schools.
First semester. Time to be arranged.
MR. JONES AND CRITIC TEACHERS

DEPARTMENT OF ROMANCE LANGUAGES

*PROFESSOR DOUGHERTY, VISITING PROFESSOR NICOL, ASSISTANT PROFESSOR REID, ASSISTANT PROFESSOR KING, MISS WAWRZYNIAK

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

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*Absent on leave.

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;
2) an extensive reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;
3) a competent speaking knowledge of both languages, facilitated by speaking approach courses at the elementary level and by more advanced courses and group meetings affording opportunity for practical use of the languages.

A "major" in Romance languages should comprise:

1) Four of the following courses
    French 13, 14, 114, 123, 125, 126
    Spanish 13, 14, 123
    Romance languages 124
2) French 113 *or* Spanish 113.
3) History 11, to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in a non-Romance language or literature.

Students majoring in Romance languages are expected to acquire a thorough knowledge of either French or Spanish and a competent knowledge of the other, both in language and in literature. Attention is called to the requirement that language majors who do not present a minimum of two years of Latin or Greek for entrance must take a course in one or the other of these languages during the freshman year.

FRENCH

During the academic year 1946-47 the following courses in French were given: 11, 12, 13, 14, 123, 126, and also Romance Languages 124.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading; exercises in speaking and writing simple French.

Indivisible course.
Open to freshmen.
Through the year. Tu. Th. S., 9; M. W. F., 11.
MR. NICOL AND MISS WAWRZYNIAK

111. ELEMENTARY—SPEAKING APPROACH. Double credit course for beginners. Active use of spoken Spanish, under the direction of a native drillmaster, accompanied by grammatical analysis and practice in direct reading. Grammar sessions 2 hours, practice sessions 3 hours, laboratory sessions 3 hours. Course 111 prepares for admission to course 13 or 14.
Indivisible course.
Open to freshmen, subject to approval of instructor.
Through the year.
Omitted, 1946-47. Offered when the demand warrants.

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.
Prerequisite: French 11, or the equivalent in high school French (normally 2 years)—depending on the result of a placement test.
Indivisible course.
Open to freshmen.
Through the year. M. W. F., 8; Tu. Th. S., 9.
MISS WAWRZYNIAK

112. INTERMEDIATE—SPEAKING APPROACH. Intensive conversational practice under the direction of a native drillmaster, review of grammar, exercises in composition and pronunciation, intensive reading in a variety of modern texts.
Prerequisite: Grade of B— or higher in French 11, or the equivalent in high school French.
Open to freshmen, subject to the approval of the instructor.
Double course. Through the year. MR. REID
Omitted, 1946-47. Offered when the demand warrants.

13. COMPOSITION AND PRONUNCIATION. The objective of this course is the correct speaking, writing, and comprehension of present-day French. Students desiring to enter this course must get the approval of the instructor.

Prerequisite: Grade of B— or higher in French 12 or three years of high school French completed with distinction. (To be controlled however by the result of a placement test.)

Open to freshmen.

Through the year. M. W. F., 9. MR. NICOL

14. READINGS IN FRENCH LITERATURE. The aim of French 14 is two-fold: the attainment of facile reading ability and a general view of French literature since 1600, based upon detailed study of ten works of representative authors.

Prerequisite: French 12 or the equivalent in high school French (normally 3 years)—depending upon the result of a placement test.

Open to freshmen.

Through the year. M. W. F., 12; Tu. Th. S., 10.
MR. REID AND MR. NICOL

113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. Ordinarily it is expected that students will have completed French 14 before taking this course, inasmuch as a reading knowledge of the language is highly desirable.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not in fulfillment of the requirement in foreign language.

Omitted, 1946-47.

114. GENERAL VIEW OF FRENCH LITERATURE. A unified and fairly complete survey of French literature from the beginnings to the present time.

Prerequisite: French 14 or equivalent.

Through the year. Tu. Th., 10; M., 2. MR. DOUGHERTY

Omitted, 1946-47.

125. PRINCIPAL PROSE GENRES. Detailed study of the essay, the short story, and the novel as exemplified by the chief works in each genre from the sixteenth century to the present time.

Prerequisite: French 114 or equivalent.

Through the year. Tu. Th., 8:30-9:50. MR. DOUGHERTY

Omitted, 1946-47. Offered in alternate years.

126. French Poetry and Drama. Intensive study of the principal monuments of each genre, from the Middle Ages to 1900.

Prerequisite: French 114 or equivalent.

Through the year. Tu. Th. S., 10. Mr. Nicol

To be omitted in 1947-48. Offered in alternate years.

123b. Advanced Language. Advanced composition and special study of grammatical topics.

Prerequisite: French 13 or 112 and preferably Romance Language 124.

Half course. Second semester. W. F., 9; a third hour to be announced. Mr. Reid

Offered in alternate years.

Romance Languages 124a. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the sounds of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisites: French 13 or 112, or Spanish 13.

Half course. First semester. M. W. F., 12. Mr. Reid

To be omitted in 1947-48. Offered in alternate years.

SPANISH

During the academic year 1946-47 the following courses were given: 11, 12, 13, 14, 115, also Romance Languages 124.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading in both the Spanish and Spanish-American fields. Exercises in speaking and writing.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; Tu. Th. S., 10 and 11.

Mr. Reid, Mr. King and Miss Wawrzyniak

111. Elementary—Speaking Approach. Double credit course for beginners. Active use of spoken Spanish, under the direction of a native drillmaster, accompanied by grammatical analysis and prac-

tice in direct reading. Grammar sessions 2 hours, practice sessions 3 hours, laboratory sessions 3 hours. Course 111 prepares for admission to course 13 or 14.

Indivisible course.

Open to freshmen, subject to the approval of the instructor.

Through the year.

Omitted, 1946-47. Offered when the demand warrants.

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent in high school Spanish (normally 2 years)—depending upon the result of a placement test.

Indivisible course.

Through the year. Tu. Th. S., 8 and M. W. F., 9. MR. REID

13. COMPOSITION AND PRONUNCIATION. The objective of this course is the correct speaking, writing, and comprehension of present-day Spanish. Students desiring to enter this course must get the approval of the instructor.

Prerequisite: Grade of B— or higher in Spanish 12, or equivalent, or three years of high school Spanish completed with distinction. (To be controlled however by the result of a placement test.)

Open to freshmen.

Through the year. M. W. F., 8. MR. KING

14. READINGS IN SPANISH AND SPANISH-AMERICAN LITERATURE. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and a general knowledge of the principal Spanish and Spanish-American authors.

Prerequisite: Spanish 12, or the equivalent in high school Spanish (normally 3 years)—depending on the result of a placement test.

Open to freshmen.

Through the year. M. W. F., 9 and 10. MR. KING

113. INTRODUCTION TO LATIN-AMERICAN CIVILIZATION. A survey of the art, history, and literature of the Latin-American countries from pre-conquest times to the present day. Ordinarily it is expected that students will have completed Spanish 14 before taking this

course, inasmuch as a reading knowledge of the language is highly desirable.

Spanish 113 may be counted in fulfillment of the general requirement in art, music and literature, but not in fulfillment of the requirement in foreign language.

Omitted, 1946-47. Offered when the demand warrants.

115. SPANISH-AMERICAN LITERATURE. The principal literary trends in Spanish America from the colonial period to the present day. Special emphasis will be placed on novels and short stories important to the understanding of the nature and problems of life in Latin America.

Prerequisite: Spanish 13 or 14, or the equivalent.

Through the year. Tu. Th. S., 11. MR. KING

Offered when the demand warrants.

123b. ADVANCED LANGUAGE. Advanced composition and special study of grammatical topics.

Prerequisite: Spanish 13 and preferably Romance Language 124.

Half course. Second semester. M. W. F., 12.

Omitted, 1946-47. Offered when the demand warrants.

ROMANCE LANGUAGES 124a. COMPARATIVE FRENCH AND SPANISH PHONETICS. The elements of general phonetics. A detailed study of the sounds of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: French 13 or 112, or Spanish 13.

Half course. First semester. M. W. F., 12. MR. REID

To be omitted in 1947-48. Offered in alternate years.

COURSES IN SOCIOLOGY

A description of the offerings in Sociology and a list of courses in Sociology will be found in the announcement of the Department of Economics and Sociology.

COURSES IN SPANISH

A description of the offerings in Spanish and a list of courses in Spanish will be found in the announcement of the Department of Romance Languages.

The Summer Term

First Session, June 2 to July 11

Second Session, July 14 to August 22

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it necessary to provide opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer session was lengthened to twelve weeks and made an integral part of the college program.

Teachers who wish to attend the summer school for six weeks will find many courses suited to their needs during the second session.

Instruction is offered in all subjects usually included in the undergraduate or graduate programs for which there is sufficient demand.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Bachelor of Education, Master of Arts, and Doctor of Philosophy. A graduate student should secure explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in courses or half courses. A course, equivalent to six semester hours, involves five sixty-minute meetings per week, or their equivalent, throughout twelve weeks. A half course extends through six weeks. A normal program will be two subjects carried concurrently.

Tuition charges, for a normal program, are $120.00 for the term of twelve weeks, or $60.00 for each session of six weeks. The charge for other programs is on the basis of $10.00 per semester hour.

Dormitory accommodations for both men and women are available at reasonable rates.

The first session is designed primarily for college students who will remain through the entire term of twelve weeks. However, any qualified person may be admitted to this session.

The second session has the additional purpose, as has been stated, to serve the group which under normal conditions would attend a summer school for six weeks, beginning about July 4. Many of the undergraduate courses have been planned so that they may be entered at the opening of the second session.

The Summer Term Bulletin contains detailed information about the coming term with descriptions of the various courses, and may be had upon application to The Dean of the College, Clark University, Worcester 3, Massachusetts.

THE SUMMER TERM AND THE ACCELERATED COLLEGE PROGRAM

The introduction of the summer term, with its two sessions of six weeks each, has given great flexibility to the college program The college course may extend through the traditional four years or may be condensed into shorter periods of time.

Courses Offered in the Summer Term

Courses are identified by number. The letters "a" and "b" following a course number indicate that the course is offered for the first session or for the second session respectively. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the figure "1," those for advanced undergraduates and graduate students, with the figure "2," and those primarily for graduate students, with the figure "3."

The following courses were given during the 1946 summer term.

BIOLOGY

ST11.	General Biology.	Mr. Nunnemacher and Mr. Potter
ST16a.	Histology.	Mr. Nunnemacher
ST18b.	Genetics.	Mr. Potter

BUSINESS ADMINISTRATION

ST117. Principles of Accounting. Mr. Hargest

ST182a. Office Management. Mr. Hargest

ST20. Business Law. Mr. Fisher and Mr. Melder

ST112b. Introduction to Personnel Management. Mr. Fisher

CHEMISTRY

ST11. General Chemistry. Mr. Ziemlak

ST15. Elementary Organic Chemistry. Mr. Martell

ECONOMICS

ST11. Principles of Economics. Mr. Brandenburg and Mr. Fisher

ST12a. Economic and Industrial History of Europe. Mr. Brandenburg

ST12b. Economic and Industrial History of the United States. Mr. Melder

ST22a. Organized Labor in the United States. Mr. Brandenburg

ENGLISH

ST11b. Composition and Literature. Mr. Anderson

ST15. Survey of English Literature. Mr. Anderson and Mr. Marble

ST13b. Shakespeare. Mr. Marble

ST124b. American Drama. Mr. Letendre

ST112b. Tennyson and Browning. Mr. Marble

FRENCH

ST12. Intermediate French. Mr. Dougherty and Miss Wawrzyniak

GEOGRAPHY

ST12a.	Meteorology.	Mr. Warman
ST101b.	Introduction to Political Geography	Mr. Van Valkenburg
ST191.	Cartography and Graphics.	Mr. Burnham
ST26b.	Economic Geography.	Mr. Murphy
ST27b.	Human Geography.	Mr. Ekblaw
ST283a.	Geography of South America.	Mr. Warman
ST284b.	Geographic Problems of the Americas.	Mr. Ekblaw
ST285b.	Geographic Problems of the Old World.	Mr. Van Valkenburg

GERMAN

ST11.	Elementary German.	Mr. Bosshard and Mr. Baillou
ST13.	Third Year German.	Mr. Bosshard and Mr. Baillou

HISTORY AND INTERNATIONAL RELATIONS

ST17.	American History Since 1783.	Mr. Rozwenc and Mr. Coddington
ST23a.	American Diplomatic History.	Mr. Rozwenc
ST241b.	Civil War and Reconstruction.	Mr. Coddington
ST354.	Research in the History and International Relations of Continental Europe.	Mr. Lee

MATHEMATICS

ST10.	First Year College Mathematics.	Mr. Melville
ST10b.	First Year College Mathematics (Algebra).	Mr. Melville
ST9b.	Refresher Course (non-credit course).	Mr. Melville

NURSING EDUCATION

ST202a.	Teaching in the Hospital Unit	MISS SHAY
ST206a.	Administration in the Nursing Unit.	MISS SHAY
ST201b.	Principles and Methods of Teaching in Nursing Education.	MISS SHAY
ST203b.	Trends in Nursing and Nursing Education.	MISS SHAY

PSYCHOLOGY AND EDUCATION

ST11.	General Psychology.	MR. BROWN
ST180a.	Introduction to Philosophy.	MR. BROWN
ST210b.	The Psychological Approach to Citizenship Development.	MR. JONES
ST214b.	Test and Measurements Applied to Guidance.	MR. JONES

SPANISH

ST11.	Elementary Spanish.	MR. DOUGHERTY AND MR. REID

The Degree of Bachelor of Education

The Degree of Bachelor of Education has been offered primarily to teachers in the Worcester school system and to those in nearby towns since 1923. A condition for admission to candidacy for the degree is completion of a two-year normal school course, or its equivalent. A year of professional, full-time teaching experience is a prerequisite for the degree. The program leading to the degree includes requirements in English, foreign language, laboratory science, social science and education. Credit toward the degree may be earned in regular college courses, in summer schools and in afternoon or evening courses offered by the University especially to meet the needs of candidates for this degree.

Since the establishment of the State Teachers College in Worcester the reasons for offering this degree have largely ceased to exist, and there has been a material shrinkage in the number of candidates.

At present new candidates may be accepted, if at all, only after special action by the Committee on the Bachelor of Education Degree.

Degrees Conferred

In the Calendar Year 1946

BACHELOR OF ARTS

- Martha Linnea Adlerz
- Herbert Richard Becker
- Sumner Slobin Berlyn
- Joan Carolyn Blumenthal
  - (With honor in general course and honors in Geography)
- John David Brennan
- Mary Catherine Butler
- Georgiana Camp
- Mary Virginia Carroll
- Claire Therese Cassidy
- Angela Farinelli Castaldi
- Robert Henry Civin
- Susanna Boylston Colton
- Barbara Emma Conway
- Dorothy Selma Cotzin
  - (With highest honor in general course and honors in Psychology)
- Edmond Bernard Deckel
- Francis James Deignan
- Jane Emerson Doolittle
  - (With honors in Chemistry)
- Ann Marie Doyle
- Florence Frances Driscoll
  - (With high honor in general course)
- Ruth Marie Dufresne
- Golda Muriel Feingold
- Marie Virginia Flynn
- Phyllis Freeman
- Bernard Jack Goodstein
- Carl Raymond Griffin
- Norma Lorraine Gullberg
- Kathleen Ruth Harris
- William George Hayden, Jr.
- Pauline Florence Heon
  - (With honor in general course and honors in Romance Languages)
- Emeline Colburn Highberg
  - (With honors in Geography)
- Stanley Parker Hull
- Ishier Jacobson
- Shirley Marie Johnson
- Grace Glendowyn Knipe
- Rita Elizabeth Kosciusko
- Florence Joan Krajewski
  - (With high honor in general course)
- Doris Elaine Lampron
- Jean MacGregor Lippincott
- Elizabeth Ann Lucas
- Irving MacShawson
- Walter Mann, Jr.
- Donald West Marsh
- Anne Marie McCarthy
- Ina Marie-Denise McDonald
- Robert Richard McDonough
- Ann Marie McKenny
- Shirley Irma Milman
- Robert Edward Morel
- Stella Nanigian
- Ruth Ellen O'Flynn
- Noriar Pahigian
- Cyprus Joseph Paskevich
- George Alfred Peterson
- Adelle Lucille Queen
- Alexander John Radzik
- Edward Meredith Risley
- Stephen Joseph Roycewicz
- Margaret Mary Russell
- Albert Paul Sagansky
  - (With honors in Economics and Sociology)
- Irving Herbert Schlafman
- Nancy Hokans Sinclair
  - (With honors in German)
- Arnold Sleeper
- Mary Madeline Slein
- Arthur Kent Smith
- Robert Wallace Smith
- Helen Elizabeth Tashjian
- Barbara Claire Thurlow
- Arpine Varjabedian
- Alan Bennett Wade
- Leon Julian Wald
- Milton Gershon Weiner
- John Frank Whitney, Jr.
- Ralph Yetvin

BACHELOR OF BUSINESS ADMINISTRATION

- Jean Marie Becker
- Harriet Burack
- Virginia Rita Hamel
- Eleanor Margaret Emerson
  - (With honor in general course and honors in Business Administration)

BACHELOR OF EDUCATION

Madeline Josephine Army
Catherine Ann Carmody
Rebecca Rice
Ella Gertrude Shea

BACHELOR OF SCIENCE IN NURSING

Kathleen Ciprian Coutu

MASTER OF ARTS

Charles Newton Brickley
William Dacey
Nella Bernice Elenbaas
James Haratani
John Knox Hemphill
Jacob Hiatt
Emeline Colburn Highberg
Louis Ernest Leipold
Urban Joseph Linehan
Frederick Stevens Merriam
Samuel Eli Molod
Midori Nishi
Pearl Noland
Paulina Celia Shawmut
Marion Irene Wright

MASTER OF ARTS IN EDUCATION

Stephan Beaton, Jr.
Howard George Duckworth
Daniel Patrick O'Keefe
Paul Joseph Sullivan
Philip Damon Wheaton

DOCTOR OF PHILOSOPHY

Leo Alpert
Thomas Wilson Chamberlin
Albert Eugene Chouinard
George Henry Haines
John Granville Jenson
Martin Henry Little
Ralph Eugene Olson
John Lewis Robinson

HONORARY DEGREES

Spruille Braden	Doctor of Laws
Charles Samuel Curtis	Doctor of Science
Clarence Nichols Hickman	Doctor of Science
Ellsworth Huntington	Doctor of Letters
Robert Price Russell	Doctor of Science

SUMMARY

Degrees in Course	
Bachelor of Arts	72
Bachelor of Business Administration	4
Bachelor of Education	4
Bachelor of Science in Nursing	1
Master of Arts	15
Master of Arts in Education	5
Doctor of Philosophy	8

Honorary Degrees	
Doctor of Laws	1
Doctor of Letters	1
Doctor of Science	3

Register

Names of students are grouped in three lists. I, graduate students, undergraduate students, and special students in attendance during the regular academic year 1946-47; II, those who attended the 1946 Summer Term; III, students who withdrew after a short time in residence, 1946-47.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; numerals 47, 48, 49, and 50 are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; BE—candidates for degree of Bachelor of Education; B—biology; BA—business administration; Ch—chemisty; Ec—economics and sociology; Ed—education; En—English; FA—fine arts; Ger—German; G—geography; H—history and international relations; IA—international affairs; Ph—physics; Ps—psychology; RL—romance languages. State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

The list includes the names of all who have matriculated and registered. An asterisk (*) indicates a student not in residence for the entire year. A dagger (†) indicates a student entering at the beginning of second semster.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
†Abeles, Robert Arent	50		21 Havelock Rd.
Abelson, Herbert Irving	47		1 Freeland
Abrahamson, Sherman Raymond	G g		6 Wachusett
Adamian, George	47		148 Dewey
Adams, Edmond Samuel	47	Mattapan	15 Oread Pl.
†Addington, Lloyd Byron, Jr.	49	Memphis, Tenn.	Estabrook Hall
Adrian, Richard Francis	49		28 Commonwealth Ave.
Agulnick, Sidney	50		20 Granite
Ahlstrom, John Russell	49		158 Belmont
Aldrich, Charles Raymond	50		10 Bluebell Rd.
Alexander, Lewis McElwain	G g	East Dennis	14 Oread
†Alfke, George Brinkmann, Jr.	H g	South Lancaster	
Allegrezza, Nello Alfred	48	Milford	11 Charlotte
Allen, John Winfield, Jr.	47	Rutland	17 May
Allstrom, May Ingrid	50	Auburn	
Altobelli, Richard Joseph	49	Leominster	156 Woodland
Amback, Reginald, Jr.	48	Reading	4 Astor Pl.
Ambrosini, Dario Mario	50	Dunmore, Pa.	Estabrook Hall
Amidon, Dorothy Alice	Ed g		18 Sunnyhill Dr.
Amsden, Carol Theresa	50		159 Highland
Amsden, Virginia Rita	49		159 Highland
Anderson, Charles Oscar, Jr.	50	Holden	
Anderson, Donald Fernland	49		56 Holden
Anderson, Janet Marie	50		157 Woodland
Anderson, Jean Harriet	50		43 Tower
Anderson, John Henry	50	Shrewsbury	
Anderson, Priscilla Marie	47	West Boylston	
Anderson, Roger Burnett	50		11 Prospect
Antzes, Barbara Irene	49	New London, Conn.	Fanning Hall
Aramony, William	50		509 Grafton
Arbour, Joan	47		195 Clark
Archambault, John Joseph	50		4 Woodbine
Argyris, Chris	47	Irvington, N. J.	40 Richards
Armenti, Ralph Angelo	50		277 Shrewsbury
Arnold, Bernard	49		148 Elm
Aronoff, Richard Newell	49	Winchendon	53 Charlotte
Aronson, Charles Edward	50		33 Copley Rd.
Ash, Margaret Mary	50		365 Cambridge
Asher, Norman Bennett	48		99 Coolidge Rd.
Atwood, Ruth Joy	49	Spencer	
Audette, Doris Gertrude	49		43 Charlotte
Avery, Charlotte Helen	48		2 Homestead Ave.
Babineau, Alexis Adrien Arthur	Ch g		Assumption College
Babson, William Arthur	50	So. Orange, N. J.	40 Richards
Bachand, Clifford Brodeur	49		70 Lovell

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Baier, Clarence Wilton, Jr.	H g	Melrose	1301 Main
Baird, Malcolm Everett	48		71 Olean
Baker, Stephen Hopkins	49		5 Vincent Ave.
†Barrett, James Joseph, Jr.	49		5 Lucian
Barsoum, Peter, Jr.	49		183 Austin
Basiul, Walter Joseph	48		56 Perry Ave.
Baskin, Marion June	50		20 Ripley
Baskin, Myron Adelbert	H g	Kenmore, N. Y.	20 Ripley
Baxter, Lauren Earl	49	Sloansville, N. Y.	11 Circuit Ave.
†Beck, Paul Victor	49		46 Wachusett
Beck, Robert Nelson	47		6 Watson Ave.
Belles, Earl Melvin	48		1264 W. Boylston
Bellinger, Frank Howard	G g		39 Florence
*Bellinger, Josephine Taylor	H s		39 Florence
Beloff, Marvin Walter	50	Meriden, Conn.	100 Woodland
Benigno, Rosalino Anthony	47	Union City, N. J.	Estabrook Hall
Benson, Herbert H.	48	Uncasville, Conn.	40 Richards
*Berg, Carl Gustaf	G s		843 Millbury
Berger, Richard Irving	50		15A Everard
Bergstrom, Muriel Louise	47		645 Chandler
Berkeley, Austin West	Ps g	Shrewsbury	
Berkes, William Joseph	49	Floral Park, N. Y.	40 Richards
Berlyn, Sumner	Ed g		267 Fairmount Ave.
*Berman, Seymour	47	Dorchester	
Bernatowicz, Albert John	49		77 Sterling
Bernklow, Rodger Douglas	50	Thompson, Conn.	17 Richards
Besnia, Howard John	47		7 Jefferson
Bestehorn, Virginia Louise	49		5 Sunrise Ave.
Bibeau, Robert Wesley	49		49 Pilgrim Ave.
Biedrzycki, Raymond Francis	Ed g	Mendon	
Bird, Margaret Elaine	47	Leominster	Woodland Hall
Birnbaum, Syma C.	49	Dorchester	Fanning Hall
Birrer, Ivan J.	Ps g	Atwood, Kansas	North St., Holden
Bjorkman, Evelyn Josephine	H g		8 Hooper
Blackington, Robert Oliver	50	Needham Heights	39 Shirley
Blanjean, Lucienne A.	G F	Brussels, Belgium	1133 Pleasant
Blount, William Gardner	47	Northboro	
Blue, James Leonard	50	Harvard	Estabrook Hall
Blume, Geraldine Irma	49	Derby, Conn.	Fanning Hall
†Boch, Oliver Wendell	50	Togus, Me.	Estabrook Hall
Bogosian, Paul	49		396 Park Ave.
Bolen, Jean Louise	50		132 Russell
Booth, Mitchell Burton	50	Brooklyn, N. Y.	7 Allen
†Bonfeld, David	H g	New York, N. Y.	18 Lowell
Bortman, David Richard	48	Dorchester	6 Charlotte
Bouffard, Albert J.	50		9 Albert
†Bourne, Avis C.	G s	Sterling	
Bourque, Ellsworth Joseph	Ps g	Princeton	
Bowden, Henry Walter	49	Gardner	Estabrook Hall
Bowker, Glenis	49	Shrewsbury	
Boxshus, John Peter	49		10 Ellsworth
Boynton, Marjorie Louise	50	Brookfield	Blakeslee Hall
†Boynton, Stanley Melvin	49	W. Boylston	
Braman, Robert Edward	47	Auburn	
Brandon, Donald Golden	G g	Elizabeth City, N. C.	5 Bancroft
Brearley, Betty	47		3 Dewar Dr.
Brickley, Charles Newton	H F	East Providence, R. I.	Estabrook Hall
Brodeur, Richard Romeo	50	Putnam, Conn.	33 Richards
Brodsky, Barbara Ellen	48		100 Granite
Brooks, Harriet	49		78 May
Brotherton, William Richard	H g		18 Hitchcock Rd.
Brown, Bernice Eululoo	50	Grafton	
Brown, Richard Carson	48		7 Marcy
Brown, William Joseph	50	Shrewsbury	
Bubar, Patricia Virginia	49	Holden	
Buckley, James Thomas, Jr.	50		122 Woodland
Bugbee, Betty Elaine	B s	Oxford	
Bugbee, Francis Patrick, Jr.	50	W. Brookfield	
Burack, Joseph	49	Shrewsbury	
Burns, Carolyn Jean	47		27 Grand
Burton, Dorothea Edythe	G g	Buffalo, N. Y.	24 Gates
Bush, Everett Homer	G g	Westfield	18 Lowell

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Butenas, Carl N.	50	Gardner	10 Rockport Rd.
Butler, Therese Imelde	49		81 Kenwood Ave.
Butterfield, Ruth A.	49	Westminster	Woodland Hall
Caefer, Raymond John	50		7 Cutler
Caisse, Shirley Mary	48	Millbury	Woodland Hall
Callan, Barbara Ann	49		67 Fairfax Rd.
Callender, Joseph Holligan	49	Boston	Estabrook Hall
Camp, Edward C., Jr.	49		2 Claremont Sq.
Campbell, Donald Robert	49		214 Hamilton
Capen, William Melvin	50		110 June
Cardozo, Robert Lopes	49	Kew Gardens, N. Y.	33 May
Carini, Louis Peter	50	Framingham	
Carlisle, Robert	50		28 Irving
*Carlson, Howard Walter	49		154 Greenwood
Carlson, Ruth Eleanor	49		19 Adelle Circuit
Carlson, Torsten Allen	50		5 Marconi Rd.
Caron, Blanche Ellen	50	Millbury	
Carraher, Eugene Francis	49	Kankakee, Ill.	40 Richards
Carruth, William Glenn	48	Shrewsbury	
Carswell, Catherine Ann	49	Glens Falls, N. Y.	Fanning Hall
Carvalho, Vincent George	49	E. Pepperell	20 Gates
Chaberek, Stanley, Jr.	Ch g	New Bedford	7 Allen
Chaffee, Florence Luela	50	Swanton, Vt.	Fanning Hall
Chafitz, Herbert David	50		20 Ashmore Rd.
Champeau, Harold Charles	50	Quincy	Estabrook Hall
Chandler, Arnold Edward	48		248 Mower
Chandler, Kenneth Ashton	48	Sterling Jct.	
Chao, Sung Chiao	G F	Hanchow, China	24 Oberlin
Chase, Arnold David	49		15 Somerset
Chesson, Harold Ray, Jr.	50	W. Brookfield	
Chigas, Gloria	47	Catskill, N. Y.	Woodland Hall
Christie, Janette	49		3 Perrot
Chupis, Ruth Ann	48	Shrewsbury	
Ciani, Libro	50		31 Granby Rd.
Clapkin, Marvin Babbit	49	Los Angeles, Cal.	Estabrook Hall
Clark, Genevieve	G S	Buffalo, N. Y.	138 Woodland
Clark, Howard Leslie	50	Calgary, Canada	Estabrook Hall
Clark, John Philip	50	Oxford	
Clement, Stanley Francis, Jr.	50	W. Roxbury	Estabrook Hall
Cocchiola, Jerry Joseph	50	Clinton	
Coffin, Everett Sumner	50		24 Boynton
Coghlin, Cynthia	47		13 Willard Ave.
Cohen, Ina Thebe	49	Springfield	71 Russell
Cohen, Stuart Mitchell	48		4 Hamill Rd.
†Collins, John Simms	50		50 William
Colon Vigo, Miguel Angel	G S	Barciloneta, P. R.	53 Charlotte
Colton, John Bowne, Jr.	B s		138 June
Conover, Walter Calvin	48	Red Bank, N. J.	6 Downing
Cook, Charles Hannaford	Ps g	Sterling	
†Cook, Ellsworth Barrett	Ps g	Gales Ferry, Conn.	
Cook, Mary Elaine	50	Uxbridge	
Cook, Ralph Elliott	48	Keene, N. H.	11 Circuit Ave.
*Corcoran, Thomas Scott	50	Westboro	56 Humes Ave.
Cormier, Carlton Foch	Ed g	Marlboro	
Costello, Eleanor Anne	49	Lawrence	Blakeslee Hall
Cournoyer, Paul Romeo	49	Spencer	
*Coviello, Jerry Francis	49		49 Tampa
Coyle, Jack Burton	49	Jersey City, N. J.	35 Maywood
Coyle, Thomas Harrison	49	Jersey City, N. J.	35 Maywood
Craig, Cecile Elizabeth	47		87-21 Park Ave.
Craig, Mildred Hart	47		230 Salisbury
Crain, Loren Orville	Ps g	Oakdale	
Cramer, Herbert William	48	Brooklyn, N. Y.	18 Claremont
Crane, Vera R.	Ch s	Athol	
†Crockett, Harold Ernest	48		36 Boynton
Crommett, Alfred Freeman	47		48 Burncoat
Cuccaro, Ernest Oriente	50		6 Daniels
Dagirmanjian, Arthur	49	Whitinsville	
Dalrymple, Paul Clement	47		34 Richmond Ave.
Daly, Charles F.	Ed g		486 Park Ave.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Dand, Virginia Wyman	48		21 Bellevue
Danstedt, Robert Spencer	48		10 Congress
Davidian, David B.	49		72 Hamilton
Davidonis, Aldona	47		14 Hillside
Davidson, Arthur Benjamin	50		2 Wellwood Rd.
Davis, George Herbert, Jr.	50	Auburndale	Estabrook Hall
*Davis, Richard Gray	Ec g		17 Courtland
Day, Jeanne Phyllis	50		Fanning Hall
Day, John Lovewell	47	N. Falmouth	1 Wayne
Day, Richard Lorey	49	Kittery Point, Me.	18 Shepard
Dean, John Henry	G g	Oswego, N. Y.	34½ Gates
Dean, Robert James	50	Binghamton, N. Y.	130 Maywood
Dean, Mary Louise	50	Whitinsville	Blakeslee Hall
Dear, Walter Ching	50		209 Lincoln
Deignan, Francis James	Ps g		195 Lincoln
deJonge, Coen Kiewiet	47	Levanna, N. Y.	6 Downing
DeLollis, Georgianna Assunta	48		14 Liscomb
DelRosso, Stephen	47	Dorchester	Estabrook Hall
DelSignore, Louis Guido	50		12 Imperial Rd.
Denardo, John Edward	48	Waterbury, Conn.	35 Maywood
Derosier, Albert Paul	49	Los Angeles, Cal.	9 St. Nicholas Ave.
Derosier, Robert Frederick	49	Leominster	
*desCognets, Elizabeth Barber	H s		299 Salisbury
Desroches, Edward Joseph	49	Southbridge	
Desroches, Richard Henry	47		158 Grand
Dickinson, Howard Irving	49	Auburn	
Dik, Robert Edward	50	Townsend	Estabrook Hall
Dimitroff, Olive Ide	50		58 Alvarado Ave.
Dingman, Paul R.	Ps s	Palmer	
Dion, Henry William	Ch F		160 Canterbury
DiRienzo, John Carl	50	Framingham	
†Divoll, Lincoln Allen	49		33 Navasota Ave.
Divoll, Robert Crane	50		33 Navasota Ave.
Dix, Ernest Sanford	G g	Starrucca, Pa.	56 Fruit
Dobie, Roberta Barratt	49	Millbury	Fanning Hall
†Dolan, Carolyn Anne	48		15 Wyola Dr.
Donoghue, Sheila Veronica	50		23 Jones
Donohue, Harry Joseph	49		7 Cedar
Donovan, Margaret Rita	Ps g	Millbury	
Doolittle, Ann Grace	49		48 Havelock Rd.
Doolittle, Carolyn Merriam	48		9 Rexhame Rd.
Doran, Elizabeth Mary	Ed g		76 Paine
Dornes, Kenneth Charles	49		10 Chippewa Rd.
Dorsey, James Joseph, Jr.	H g		2 Euclid Ave.
Dow, Edwin Peter	50	Rutland	
Dowd, Earl Edmund	49		3 Clive
Doyle, Henry Martin	48	Hudson	
Drury, Lawrence Calvin	50		13 Jeppson Dr.
Dryer, Arthur Oscar	50	Waterbury, Conn.	162 Highland
Dumas, Frances Jane	47	Sturbridge	Fanning Hall
Dunleavy, Gareth Winthrop	47	Putnam, Conn.	100 Woodland
Dunn, John Joseph	50	Shrewsbury	
Dwight, Marion Beatrice	49	Hubbardston	Woodland Hall
Dworkin, Daniel Martin	48		93 Grand View Ave.
Dworkin, Dorothea Barbara	50		93 Grand View Ave.
Dwyer, John Joseph	Ed g		123 Woodland
Eaves, John, Jr.	H g	Southbridge	7 Allen
Eckman, Harold	48		32 Barclay
Edinberg, Norman Joseph	49		69 Providence
Ela, Charles Waldo	50		101 Piedmont
†Elby, Albert Robert	49	New York, N. Y.	Estabrook Hall
El-Hifny, Mohamed Bahy El-Din	G g	Guiza, Egypt	Estabrook Hall
Eliopulos, James Nicholas	49		46 June
Eliopulos, Wona George	48		86a Elm
Ellis, Ralph Warner, Jr.	50		22 Howland Terrace
Ellis, Richard Baker	47	Oxford	
Elmadjian, Fred	B g	Brighton	Worc. State Hosp.
Emelfarb, Leonard Earl	50	Clinton	
Ericson, Marion Frances	49	Auburn	
Erlich, Alfred Simon	48	Webster	4 Hamill Rd.
Errede, Michael Anthony	49		256 Shrewsbury

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Escolas, Edmond Leon	Ec g		9 Abington
Esterly, Henry Herman	H g	Northboro	
Every, Leonard	50	Glens Falls, N. Y.	7 Allen
Factor, Robert Benjamin	47	Bridgeport, Conn.	Estabrook Hall
Farmer, Evelyn	48	Boylston	
Farnum, Forest Thomas	49	Gardner	Estabrook Hall
Farrand, Brent Triest	50	Liberty, N. Y.	23 Richards
Femina, Anthony Joseph	50	Milford	122 Woodland
Finkenberg, Ann Janet	Ps S	New York, N. Y.	6 Oberlin
Finks, Martin Benjamin	48	Dorchester	53 Charlotte
Finneran, Eleanor Aileen	47		5 Beechmont
Fipphen, John Stanley	49	Shrewsbury	
Fisher, Philip Brierly	49		3 Ferdinand
Fitzmaurice, Henry F.	H g	Auburn	
Flaherty, Joan Marie	49		17 Hitchcock Rd.
Fleming, Marie Francis	50		461 Chandler
Foley, John Francis	G g		21 Larch
†Foley, Robert Townsend	50		38 Shirley
Fontaine, Mary Kathleen	50	E. Douglas	
*Foor, James Harry	49	Sutton	
Foy, Walter Lawrence	Ch g	W. Springfield	Charlotte
Frazier, Philip North	50	Galveston, Texas	921 Main
Freed, Aubyn N.	50		28 S. Flagg
Freelander, Samuel Julius	50		19 Waverly
Freeman, Robert Edward	47		2 Highland Ter.
Freer, George Hoyt, Jr.	50	Liberty, N. Y.	Estabrook Hall
French, James Charles, Jr.	49		5 Montague
Frey, Irma Gloria	47	Clinton	
Frissora, Anna Loraine	49		128 Norfolk
Frost, Albert Edward	Ch g	E. Douglas	
Frost, Carl Frederick	Ps F	Portland, Oregon	15 Military Rd.
Fuller, Anna Doten	50		Blakeslee Hall
†Galanto, Fred John	49		17 Rena
Gale, Richard David	48	Pawtucket, R. I.	25 Queen
Gallagher, Mary June	50		17 Wachusett
Gallin, Grace Ann	50	Brooklyn, N. Y.	Woodland Hall
Gallo, Louis Charles	50		115 E. Central
Gardner, Richard Edward	49	E. Pepperell	124 May
Gately, Edward John	47	Hudson	
Gates, Jesse Arthur	47	Webster	
Gates, Ralph Lawrence	50		56 Circuit Ave.
Gearin, Barbara Mary	49		16 Alsada Dr.
Gendron, Lillian Louise	50	Southbridge	
George, Victor Ferris	50		269 Hamilton
Gibson, Stuart Calvert	49	Grafton	
Gillespie, Arthur Merton	Ed g	Northbridge	
Gillson, George Edward	50		51 Richmond Ave.
Gilmore, James Arthur	47	Arkansas City, Kansas	Estabrook Hall
*Gilson, Thomas Quinlevan	Ps g		15 Sunnyhill Dr.
Ginett, Lyndon E.	50	St. Albans, Vt.	8 Merrick
Giobellina, Mary Angela	50	W. Boylston	
Gladstone, Robert Kalman	49	Brooklyn, N. Y.	18 Claremont
Glazier, Raymond Eugene	47		140 Austin
Globus, Sylvia Miriam	49	Attleboro	Woodland Hall
Goldberg, David Harold	50	Colchester, Conn.	56 May
Goldsmith, Bernard	50	Brookline	21 Grand
Goldstein, Harriet Seder	47	Kensington Hghts	
Golner, John Russell	50	Roxbury	32 Oberlin
Goodell, Robert P., Jr.	50	Shrewsbury	
*Goodlight, Gertrude Louise	BE		87 Houghton
Goodman, Charles David	49	Brooklyn, N. Y.	18 Claremont
Gordon, Walter Kelly	50	Brooklyn, N. Y.	Estabrook Hall
Gould, Lidorra Frances	49	Holden	
Graden, Thurston Harold	49		16 Paul
Graham, Richard Henry	49		33 Wildwood Ave.
Graham, Russell Arthur	50		46 Oread
†Graves, Harold Oliver	49	W. Boylston	
†Gray, Grant Harry	49	Providence, R. I.	
Green, Howard Leon	47		26 Ethan Allen
Green, Robert Fried	49		3 Hanna Rd.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Green, Ruth Elizabeth	49		1 Kenilworth Rd.
†Greenstein, Julius Sydney	49	Mattapan	Estabrook Hall
Grenier, Raymond Louis	47		121 Forest
Griffin, Margaret Monica	48		27 Freeland
*Grove, Harvey	49		3 Intervale Rd.
Guba, Anne Lachens	50	Waltham	Fanning Hall
*Gudzinowicz, Benjamin John	47	Maynard	35 Maywood
Guerin, Henry Joseph	50	Quinebaug, Conn.	
Guest, Ann Talbot	49	Princeton	Woodland Hall
Gullbrand, Howard Axel	49		148 Eastern Ave.
Gurfinkel, Abraham Leon	49		26 Carlisle
Gurney, Fred Victor, Jr.	50	Amesbury	7 Allen
Gustafson, Russell John	49		32 Kosta
Gwynne, Nettie Thayer	48		12 Ivanhoe Rd.
Haberman, Gilbert Arlen	50	Longmeadow	100 Woodland
Haddad, Richard J.	50		2 Dartmouth
Haddad, Ruth Ellen	47		2 Dartmouth
Hague, Gladys Elizabeth	49		31 Fifth Ave.
†Haith, William Lawrence	49	Southbridge	
Halko, Henry James	49	Webster	
Hallahan, John Joseph	49		16 Douglas
Hallock, Gilbert Vinton	50		15 Lee
Hammarstrom, Everett John	47		46 Freeland
Hansen, Arthur Richard	48		14 Flagg
*Hanson, Martha Eleanor	47		43 Lancaster
Haroian, Mary N.	49		43 Laurel
Haroian, Pearl	50	Clinton	
*Harrald, Franklin Anderson	Ph s	Southbridge	
*Harper, Eva Marie	Ps s		115 Massasoit Rd.
Harris, Joseph Edmond	49	No. Brookfield	
Harris, William Eldon	49		28 Clifton
Harrison, Nathan Benjamin	48		125 June
Harwood, Irene Marie	48	New Bedford	Woodland Hall
*Harvey, Sanford W.	50		51 John
Haskins, Nancy Chandler	50	Norwell	Blakeslee Hall
†Hassan, Mohamed Ibrahim	G g	Cairo, Egypt	Estabrook Hall
Hawie, Louise Virginia	50	Bridgeport, Conn.	Woodland Hall
Haworth, Herbert Arthur	50	Dalton	Estabrook Hall
Hayeck, Albert Spero	50		20 Ridge
Healey, Frank Henry, Jr.	47	Fitchburg	42 Tirrell
Hearn, Lea Theresa	G S	Attleboro	27 Freeland
Hebert, Elaine Olive	50	San Carlos, Cal.	Fanning Hall
Hebrawi, Mohamed Fateh Akil	G g	Cairo, Egypt	Estabrook Hall
Heckman, Warren Keith	50		10 Pratt
Hedberg, Harold Walter	49		1 Patch
†Hedenburg, Kenneth Bruce	50		236 Beverly Rd.
Held, Colbert Colgate	G g	Clinton, Miss.	845 Main
*Held, Mildred McDonald	H g	Clinton, Miss.	845 Main
Heller, Martin	50	Brooklyn, N. Y.	100 Woodland
†Helm, David Arthur	50		6 Cutting Ave.
*Hemphill, Stella Crawford	Ps S	Mt. Rainier, Md.	3 Shirley
Heroian, Sharkey	50		165 Dewey
*Herrick, Van Buren, III	50	Rutland	
Hess, Clarke F.	G g	Norristown, Pa.	2 Kilby
Hicks, Walter Braxton	50		114 June
Higginbotham, Forrest Ivan	50		4 Pelham
Higgins, Nancy Marie	50		726 Pleasant
Higgins, Marianne Cathleen	49	Shrewsbury	
Higgins, William Thomas	50	Hingham	845 Main
Hilborn, Elizabeth Ann	50	New York, N. Y.	Fanning Hall
Hill, Nelson Richards	49	E. Greenbush, N. Y.	Estabrook Hall
Hilton, John David	50		5 Autumn
†Hobson, Nina Frances	49	Southbridge	
Holdroyd, Harriet Lucia	50	Spencer	
Holland, Howard Owen	49		27 Hemans
Holmes, George Everett	49		27 Holden
Hoogasian, Harry	49		66 Russell
Horovitz, Barbara Ruth	49	Newton	Woodland Hall
†Hortman, Helen E. Flygare	49		116 Forest
Hortman, Jacob Cyrus, Jr.	49	Minden, La.	116 Forest
Howard, Shirley Barbara	48		10 Sturgis

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
*Hughes, Walter John	Ch s		114 Lincoln
Hull, Stanley Parker	Ec g, S	Shrewsbury	
Hultquist, Warren Emil	47	Millbury	
Hunt, Grace-Louise	50	Northboro	
†Hurwitz, Irving	48		48 Barclay
Illingworth, Robert Konald	49		209 Lovell
Jack, John Archibald	50	Bridgetown, Barbados	59 Florence
Jackson, Richard Errol	47	Shrewsbury	
Jacobs, Theodore Burton	47	Dorchester	18 Claremont
Jaffe, Mitchell	49		40 Mendon
Jameson, Harold, Jr.	50		84 Copperfield Rd.
Jameson, Marie Loff	47		36 Mower
Jamgochian, Hagop H.	50	Shrewsbury	
Jardarian, Zaven	49		32 Blossom
†Jarvis, David Summer	48		469 Grove
Jasen, Myrna Belle	50	New York, N. Y.	Blakeslee Hall
Javery, Milton Henry	50		72 Salem
Jerome, Kathryn Ann	47		28 Circuit Ave.
Jewell, Allan Wilbur	50	Webster	
Johanson, Doris Elizabeth	48		261 Brattle
Johnson, Alan	49	Lynn	43 Oberlin
Johnson, Arthur Russell	48		53 Raymond
Johnson, Dorothy Anne	49	Holden	
Johnson, Sonya Alice	49		67 Catherine
Johnston, John Mackenzie, Jr.	50	Leicester	
Jones, Dudley Palmer	50		126 Clark
Jones, Louis Allman	50	Ashburnham	7 Allen
Jones, Margaret Elizabeth	50	Southbridge	Fanning Hall
Jordan, Robert Lincoln	47		19 Freeland
Joress, Sumner Mark	48	Roxbury	
Joudrey, Harold Emerson	47		111 Olean
Joyce, June Pearl	48	E. Brookfield	
Justice, George Warren, Jr.	50	Woburn	6 Young
Kalil, Eli	50		269 Fairmont
Kalil, Raymond	50		119 Hamilton
†Kan, Yen King	G S	Kwangoi, China	46 Tirrell
Kane, Phyllis Elaine	49		63 Brownell
Kanef, Eleanor Ruth	RL s		43 Longfellow Rd.
*Kao, Chong-rwen	G S	Chinkiang, China	
Karazia, Ernestine Vanda	49		82 Harlem
Karolkewicz, Henry Victor	47		7 Richland
*Karsavanian, Eleanor Gail	50		32 Blossom
*Kaski, Alfred Ensio	50	Amesbury	7 Allen
Kassen, Anita	Ps F	New York, N. Y.	14 Oberlin
Katte, Martin, Jr.	49	Arlington, Va.	Estabrook Hall
Katz, Alice Freda	50	New York, N. Y.	Blakeslee Hall
Kaufman, Mendel Joseph	47		172 Vernon
Keegan, Martin Leo, Jr.	49	Dalton	Estabrook Hall
Kelleher, Robert Leo	50	Shrewsbury	
Kellermann, Frederick Dale	47	Acton, Ill.	939 Main
Kellermann, Mary Campbell	47		939 Main
Kellogg, David Hodgkins	49	Springfield	Estabrook Hall
Kelly, Rita Marie	H g	Spencer	
Kemp, Betty Mary	50		552 Chandler
Kemp, James Malcolm	49		552 Chandler
Kenneally, Joseph Timothy	Ed g		17 Abbott
Kennedy, Louise Marie	50	Auburn	
†Kennedy, Mary Elizabeth	Ed s		45 Midland
Kerkorian, George Jasper	50		204 Chandler
Killoran, John Joseph	Ch g		43 S. Lenox
Kilpatrick, Richard Hardie, Jr.	47	Sterling	
Klamkin, Charles	50	Waterbury, Conn.	56 May
Kleine, Herman	Ec g	Hempstead, N. Y.	Sanford Riley Hall, Worcester Polytechnic Inst.
Kneeland, David John	49		5 Shepard
Kneller, Leighton Alvin	49		10 Hitchcock Rd.
Knight, Carolyn	49		47 Brownell
Knox, Roy Irving	49		118 Belmont

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Kokocinski, Emily Elisabeth	48	Webster	
Korzun, Sophiamarie Roberta	49		83 Penn Ave.
Kouri, Joseph John	47	Peekskill, N. Y.	59 Maywood
Kowal, Edna Elizabeth	50		6 Lisbon
Krajewski, Irene Rose	49		5 Norwood
Kunzelman, Lois Walbridge	48		6 Ararat
Kurtyka, Joseph Walter	50	New Britain, Conn.	11 Charlotte
†Kyi, Ma Thin	G g	Thaton, Burma	46 Tirrell
Labenski, Theresa Mary	49		69 Harlem
Laggis, Mary Cyriakula	49	Ayer	Woodland Hall
Lapham, Marjorie	50		939 Main
LaPierre, Raymond Lloyd	49	Leominster	20 Gates
LaPlante, Bernard James	47		2 Wyman
Larson, Knute Gunnar	Ed g		31 King Philip Rd.
Latham, George Robert	49		52 William
Latendress, Hazel Marion	G g	Mohegan, R. I.	145 Woodland
Lavine, Richard Bennett	48	Webster	Estabrook Hall
Lavoie, Estelle Adelle Mary	47	Dudley	
*Lazour, Arthur	50		522 Cambridge
Leavitt, Milton	50		27 Derby
LeClair, Edward Emile, Jr.	49	Southbridge	
Legg, Willard Allen	B s		2 Davidson Rd.
Leighton, Stanford Mayall	50	Newton Centre	1061 Pleasant
*Leiser, Michel	49	New York, N. Y.	Estabrook Hall
Lekas, Mary Despina	49		323 Pleasant
Lemire, Marie Ernestine	49		20 Gates
Lenk, Charles E.	Ed g	Cherry Valley	
Lennan, Albert Kendrick	Ec g		65 Brantwood Rd.
Lennan, David Richards	47		65 Brantwood Rd.
Lennan, Geoffrey Wendell	50		65 Brantwood Rd.
Lenti, Frank Michael	47		525 Grafton
Leonard, Robert Martin	50	Shrewsbury	
Leone, Anthony Daniel	49		112 Clayton
Lepore, Francis Edward	50	Clinton	
Leroux, Lorraine Theresa	49	Leicester	
LeShan, Eda Joan	Ps g	New York, N. Y.	919 Main
LeShan, Lawrence L.	Ps g	New York, N. Y.	919 Main
*Levi, Verna	Ph s		Worc. State Hosp.
†Levy, Alfred Jacob	50	Dorchester	Estabrook Hall
Liard, Theodore J., Jr.	G g	Providence, R. I.	2 Kilby
Liberty, Kenneth Earl	50	N. Uxbridge	
Liberty, Richard Robert	50		682 Main
Lilley, John Robert, II	50		127 S. Ludlow
Lin, David Kwan-te	G F	Fukian, China	53 Charlotte
†Lisabitsky, Sylvia	BE		86a Elm
Ljungberg, Betty Pauline	50		46 Eunice Ave.
*Longton, Russell Creighton	49		53 No. Ashland
Lopez, Manuel Herve	G g	Brooklyn, N. Y.	18 Oread
Lord, Edgar Dana	Ed g	Holden	
Loweth, Gerald Philip	50	Norwich, Conn.	Estabrook Hall
Luebbe, Carl, Jr.	47	Upton	
Lumb, Ralph Francis	47	Shrewsbury	
Lurier, Harold Edmond	49		231 Park Ave.
Lurier, Janice Evelyn	50		231 Park Ave.
Lussier, Jeanne Margaret	50		49 Kingsbury
Lynch, Robert Russell	49	Leominster	
Lynch, Thomas Joseph	49		78 Commodore Rd.
Macchi, Italo Alden	47		37 Anderson Ave.
Mackay, Norman Dale	49		1 Wakefield
*Mader, James Walter, Jr.	H g	Wichita, Kan.	18 Shepard
Magnusson, Roger Philip	48		6 Minthorne
Magoun, Warren Read	47	Nitro, W. Va.	94 Lakewood
Mainville, Joseph Michael	B s	Rochdale	
Malick, Donald	48	New Bedford	18 Claremont
Mancevice, Ruth Beatrice	49		29 Cutler
*Mann, Walter, Jr.	FA s	Sterling	
Manning, Arleen Marie	48		1 Rosemont Rd.
Manzi, Dolores Maria	50	Webster	
Manzi, Lucian Arthur	50	Shrewsbury	
Mardiros, Richard Luther	48	Pasadena, Cal.	6 Montague

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Marion, Raymond J.	H g	Spencer	
Marlborough, Margaret Ann	Ed g	Millbury	
†Marlborough, Mary Joan	G s	Millbury	
Marsoopian, Anita	50	Whitinsville	
Martel, Raymond Joseph	50		10 Dallas
Martel, Robert W.	50	Webster	
Martin, Loraine Zuhlke	49	Holden	
Martin, William Butler, Jr.	48	Ashburnham	845 Main
Martineau, Donald Paul	49	Auburn	
Mason, James	50	Brooklyn, N. Y.	Estabrook Hall
Mason, Edward	49	Dorchester	
Mastroberti, Rocci Stephen	50		38 Superior Rd.
†Matern, Herman Richard	B s		794 Grove
Mauke, Otto Russell	47	Webster	
Mazur, Anne Regine	50		42 Perry Ave.
Mazur, Bernard	48		153 Chandler
Maynard, Wentworth Charter, Jr.	49		115 Monadnock Rd.
McCabe, Kathryn Lovejoy	49		77-3 Park Ave.
McCarthy, Robert Vincent	Ed g		26 Maxwell
McCarty, Margaret Ann	48	Clinton	
McDonald, John Joseph	50	Hackensack, N. J.	27 Laurel St., Auburn
McDonnell, Mary Madeline	H g		104 Green Hill Pkwy.
McDonough, Thomas Joseph	50		15 Paine
*McGill, Charles Edward	50		78 Longfellow Rd.
McGrath, Mary Agnes	H s		66 Providence
McGrath, Mary Elizabeth	49		583 Cambridge
McIntosh, Alan Campbell	50	Needham	10 Charlotte
McIntyre, Wallace Edward	G g	Niagara Falls, N. Y.	24 Oberlin
McKeeman, Gordon Butler	Ps g		43 Oberlin
McMurtrie, John William	50	New York, N. Y.	7 Allen
McNamara, Charles William	47		40 Chamberlain Pkwy.
McNamara, John Webster	47		40 Chamberlain Pkwy.
*McTiernan, James Joseph, Jr.	49		71 Birch
Melia, John James	48		77 Sterling
Menard, Robert Wells	48	Shrewsbury	
Mensoian, Michael George, Jr.	50		23 Henchman
Mero, Esther Barbara	50		363 Cambridge
Merzigian, Jacob	47		22 Bancroft
Meyerson, Lee	Ps F	Easton, Pa.	193 Lovell
Michelman, Shirley Miriam	47		18 Stockton
Michelson, Stanley Lucius	49		1061 Pleasant
†Mikoloski, Vincent Stanley, Jr.	50		25 Rob Roy Rd.
Mita, Walter Vincent	50		130 Heywood
Mitchell, Homer Everett	50	Harrisville, R. I.	
Modlinger, Ralph Elmer	49	North Adams	111 Barnard Rd.
Moffatt, Richard Andrew	50	Lowell	12 Loxwood
Mollica, Nancy Rena	50	St. Johnsbury, Vt.	Blakeslee Hall
Monigle, Betsy Ann	50		171 Highland
Monroe, Drusilla	47	Spencer	
Moore, Eula Jean	G F	Gordon, Texas	2 Downing
Moriarty, Marion Louise	50		34 Florence
Moriarty, Richard Woodbridge	48	Petersham	
†Morin, Gerald Joseph	49	Fisherville	
Morse, Lois Sandra	50	Allerton	Blakeslee Hall
Morse, Nancy	48		49 Rowena
Morton, Beverly	49		955 Pleasant
Moseley, William Richard	50		547 Park Ave.
*Mosko, William	50	Nesquehoning, Pa.	19 Glenwood St., Holden
Muir, Jeanne Viola	50		301 Burncoat
Muller, Gerald Eugene	50	Gloucester	39 Shirley
Murdock, Arthur C.	50		2 Fern
Murphy, Cornelius Bernard	Ch g		25 Caro
Murphy, Eleanor Jean	47		291 Beverly Rd.
Murphy, Paul Florence	49		78 Providence
Murray, Pauline Anne	49		65 Kenwood Ave.
Naas, Charles Willis	49		92 Lovell
Nanigian, Jacob	49	Paxton	
Nason, Natalie Eva	G g	Orono, Me.	44 King
Nazzaro, Ralph T.	Ch g	W. Springfield	
Neary, Beatrice L.	50		193 Park Ave.
Nelson, Dwight Luman	50		1 Dean

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Nelson, Hersey Bradford	48		248 Burncoat
Nelson, Kenneth Oscar	47		118 Clark
Nelson, Paul Edward	47		6 Victoria Ave.
Nelson, Paul Julian	47		14 Drummond Ave.
Nelson, Polly Katherine	50	Adams Basin, N. Y.	Blakeslee Hall
Nelson, Roy Stanley	50		148 Brattle
Nickerson, Shirley L.	H s		23 Wellington
Nims, Robert F.	50	Auburn	
Noe, Margaret Mary	48	N. Grafton	
Nolan, Anne Elizabeth	48	Auburndale	Blakeslee Hall
Nolan, Emile Francis	50	N. Agawam	7 Allen
Nordstrom, Everett Renhult	47		22 Louise
Norton, James Arthur, Jr.	Ed g		6 Hawthorne
Norton, John Ernest	50		11 Duxbury Rd.
O'Connor, Agnes Mary	50		3 Ashton
O'Connor, Mary Elizabeth	Ed g		30 Schussler Rd.
Ohman, Howard Leonard	47		23 Sunrise Ave.
*O'Leary, Daniel Rockwood	49		5 Eastern Ave.
Olson, Benedict Oliver	50		3 Ridgewood Rd.
†Oluc, Mehmet	G g	Istanbul, Turkey	8 Norwood
Olund, Paul H.	49		8 Cutting Ave.
O'Neil, Edward George	Ed g		6 Arlington
*O'Rourke, Shirley Irene	50	Fisherville	
Osborne, Kenneth Marceline	48	Amsterdam, N. Y.	11 Circuit Ave.
Osten, Donald Walter	47	Jamaica, N. Y.	27a Elm
Ostroff, Barbara June	49	Gardner	Woodland Hall
O'Toole, Charles Stuart	50	Leominster	
Owens, John James	50	New Bedford	Estabrook Hall
Pachanian, Sempad Arthur	48		150 Elm
Pagnotto, Leonard Domenic	49	Fitchburg	
Palley, Melvin Mayer	50		12 Arthur
Palmer, Islay Isabelle	50	Southbridge	
Paly, Sidney P.	48	Brooklyn, N. Y.	Estabrook Hall
Panaccione, Joseph John	50	Barre	
Pannkuk, Berend David	49	Topeka, Kan.	23 Richards
Pantos, Marguerita	47	Spencer	Fanning Hall
Papale, Frank Anthony, Jr.	47		198 Dewey
Pappas, Alex Michael	47	Auburn	
Pappas, Daniel James	49	Webster	
Parker, Fred Walter	50		17 Forkey Ave.
Parker, Lester Ward	Ed g	Rochester, N. Y.	160 Woodland
Parmenter, Guy Norris	G g	Burnwell, Neb.	20 Gates
Passey, George Edward	Ps g	Wrentham	39 Morgan
Payne, Charles Edward	50		10 Hartshorn Ave.
Pemstein, Bernard Livingston	50		1 Cedar
Perlmutter, Howard Victor	Ps g	Framingham	100 Woodland
†Pesmatjoglou, Soteria Nicolaou	Ch g	Athens, Greece	100 Woodland
Peterson, David Anshelm	49		167 Eastern Ave.
Pettit, Sally	48	Somers, Conn.	6 Birch
Philip, George Louis	47		13 Scott
Phillips, Albert George	50	Audubon, N. J.	3 Laconia Rd.
Pierce, Francis J.	49		73 Longfellow Rd.
Pileggi, Julia Rose	47		2 Hudson
Pincus, Jack Carl	50	Brooklyn, N. Y.	Estabrook Hall
Piper, Barbara Ruth	50	Leominster	
Pizzuto, Carmen S.	48	Pittsfield	11 Charlotte
Plakstis, Peter, Jr.	48		3 Perry Ave.
Plante, Marguerite Pauline	G g	Boston	39 Stoneland Rd.
Plue, Bradford Barrett	49		1020 Main
Pontbriand, Clifford Hector	48	Charlton Depot	
Pope, Henry William, Jr.	49	Naugatuck, Conn.	Maywood
Porter, Charles William	47	Agawam	35 Estabrook Hall
*Porter, Janet Elizabeth	49	Pittsfield	Fanning Hall
Porton, Marjorie June	50		92 Elm
*Powers, Mary Pauline	H g		16 Englewood Ave.
Praglin, Julius	48	Boston	Estabrook Hall
Pratt, Kenneth William	50	Leicester	
Priebe, Bruce Arthur	48	Berwyn, Ill.	766 Main
Priest, Andrew George	47	Fitchburg	18 Claremont
†Proctor, Patricia Woodbury	G s	Northboro	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Proctor, Robert Merton	50		1342 Pleasant
Prouty, Gordon Keith	H g	Leicester	
Prue, Arthur Anton	47	Delmar, N. Y.	19 Richards
Putnam, Emmons Waldo, Jr.	49		39 Coventry Rd.
†Quackenbush, Stanley George	48		148 Russell
Quaiel, Philip Joseph	49		20 Circuit Ave.
Quinn, Edward William	50		37 Stoneland Rd.
Raboin, J. Alfred Roland	48	Fitchburg	118 Belmont
Rackliff, Virginia Christina	48	Easton, Me.	6 Stoneland Rd.
Ramirez de Arellano, Ubaldino, Jr.	50	San German, P. R.	Estabrook Hall
Reardon, William Robert	En s		13 Oliver
Reddy, Martin Mathew	50	New York, N. Y.	40 Richards
Reed, Benjamin	49		50 Providence
Reed, Benjamin Cobb, Jr.	G g	Portsmouth, R. I.	2 Kilby
Rees, David John	50	Albany, N. Y.	Estabrook Hall
*Reeves, Mary Elizabeth	Ed g		5 Eureka Ter.
Reidy, James Edward	H s		180 Mayfield
Resnick, Robert Benjamin	47	Winchendon	42 Freeland
Retallick, Harold James	G g	Eau Claire, Wis.	Greene's Trailer Pk.
Reycroft, David Gage	50	Arlington	Estabrook Hall
Rice, Geraldine Elizabeth	47		3 Lowell
Richard, Robert Charles	48	Melrose	Estabrook Hall
Richardson, Robert Allen	50	Rutland, Vt.	186 Prospect St., Shrewsbury
Richardson, Wendell Slayton	49	Bellows Falls, Vt.	136 Heard
†Riggan, Byron Woodall	H s	E. St. Louis, Ill.	511 Park Ave.
Rinkus, Louis Paul	49	Castle Shannon, Pa.	44 Fairhaven Rd.
Risley, Edward Meredith	G g	Springfield	80 Northampton Ave.
Robie, Burton A.	49	Fisherville	40 Elmwood
Roche, Helen Gertrude	50		493 Park Ave.
Rogers, Donald Sargent	Ed g	Barre	
Roman, Candida R. Ramirez	G S	Hato Rey, P. R.	9 Charlotte
Rosati, Flavio Joseph	50		34 Gage
*Rose, Carleton F.	Ed g	Sterling	
Rosenlof, Thelma	48	Nampa, Idaho	Blakeslee Hall
Rosenstein, Marcia Mae	48	Spencer	
Ross, Hervey Shaw	50	Southboro	9 Stoneland Rd.
Ross, Theodore John	48		12 Fairbanks
Rowley, Ruth Elliot	49		153 Holden
Roycewicz, Stephen Joseph	Ed g		45 Ward
Rubin, George	49	Brooklyn, N. Y.	Estabrook Hall
Ruderman, Thera Cecile	49		53 May
Runstrom, Janice Bassett	49	Leominster	Fanning Hall
Rupkus, Ruth Cele	BA s		54 Sagamore Rd.
Ryan, John Donaher	50	W. Newton	42 Woodland
Sabolinski, Donald Edward	49	N. Amherst	Estabrook Hall
Sadick, Phyllis Muriel	50		10 Lenox
†Samara, Joseph	50		73 Orient
Sampson, Donald Harding	47		12 Lowell
Sandberg, Richard Paul	49		62 Whipple
Sanderson, John Cushman	49		5 Harvard
Sandy, Catherine Isabelle	50	Shrewsbury	
Sanford, William Warren	50	Starrucca, Pa.	40 Richards
Sarando, Lucy Emerald	50		12 Page
Sarason, Esther Kroop	Ps F	New Haven, Conn.	2 Richards
*Sawyer, Ivers Sidney	47	Berlin	
Schadegg, Francis John	G g	Northboro	
Schanberg, Betty Ruth	50	Clinton	
Schilz, Gordon B.	G F	Mt. Pleasant, Iowa	Charlton Center
Schneider, Keith Morton	47	New York, N. Y.	Estabrook Hall
*Schollard, John	47		36 Shirley
*Schultheiss, Robert Carl, Jr.	50	Darien, Conn.	30 May
Schwab, Bernard	49		934 Main
†Scott, Patricia Ann	48	Paxton	
Shannon, William Vincent	47		41 Ripley
Shaub, Robert William	49	Clinton	
Sheehan, Francis P.	50	Bridgeport, Conn.	15 June
Shenian, Popkin	50	Whitinsville	
Shepro, David	48		Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Sher, David B.	48		426 Chandler
Sherman, Harold Irving	47		73 Richmond Ave.
Sherman, William Andrew	50		6 Malden Ter.
Shields, Richard James	47	Agawam	845 Main
Shiminski, Paul Anthony	50		1036 Main
Shimukonis, Frank Joseph	49		26 Waverly
Shooshan, Charles Harold, Jr.	49		42 Ormond
Shopes, Louis John	47	Rochester, N. Y.	35 Maywood
Shryer, Enid Merlyn	49		15 Oberlin
Shulman, Bernard Herman	48	Dorchester	18 Claremont
Shulman, Kenneth	50		168 June
Sibley, William Frederick	50	W. Springfield	Estabrook Hall
Silverberg, Joseph Edward	47		118 Belmont
Silverman, Franklin Ira	49		429 Chandler
Silverman, Marian Linda	50	New York, N. Y.	Blakeslee Hall
Simpson, Paul E.	47		64 Whipple
Sinclair, Edward Elliot	Ch g		61 Everard
Singer, James Pius	47	Miami, Fla.	Estabrook Hall
Singer, John Jacob, Jr.	Ch g		11 Oberlin
Sirk, Joel Hayden	50		15 Vassar
Sistrand, Doris Gustava	48		30 Palisades
Skinner, Marguerite MacPherson	50		98 Forest
Skogstrom, Paul Robert	50		63 Eunice Ave.
Slechta, Robert Frank	49		25 Delawanda Dr.
Sloan, James Horace	47		21 Circuit Ave.
Smart, Lyndwode, N. L.	Ed g		150 Barnard Rd.
Smith, Anna Marie	50		70 Coolidge Rd.
Smith, Charles Francis	50		81 Piedmont
Smith, Delwin Frank	50	Newtonville	160 Woodland
Smith, Donald Everett	Ed g		19 Mayflower Circle
Smith, Elizabeth	47		Woodland Hall
*Smith, Elizabeth Mary	48	Webster	
Smith, George Herbert	48	Weeks Mills, Me.	Estabrook Hall
Smith, Marilyn Ethel	47	Sutton	
Smith, Richard Stanley	49		27 Lee
Smith, Robert MacNaught	49	Grafton	70 Chester
Smith, Samuel Wallace	50	Sheffield, Ill.	Estabrook Hall
*Smith, Sheldon Bruce	50	Norwalk, Conn.	33 Montague
Sobol, John A.	G g		85 Seymour
Soderberg, Barbara Arlene	50		19 Breck
Sokoloff, Janet Sharp	50	New Haven, Conn.	Blakeslee Hall
*Soloperto, John Francis	B s		83 Mill
Sommerstein, Hannah	47	Brookline	Fanning Hall
Sootkoos, Alphonse Charles	49	Auburn	
Spagnolo, Leo Peter	49	Tenafly, N. J.	11 Dunbar
Spalding, Judson Wylder	50	Auburn	
Specht, Raymond Edwin	G g	Oconto, Wis.	939 Main
Spencer, Harry Irving, Jr.	50		740 Pleasant
*Spring, Walter Edward	50		86 Lovell
Spungin, Charlotte Isabelle	50	E. Greenwich, R. I.	Woodland Hall
Spungin, Marian Allyene	48	E. Greenwich, R. I.	Woodland Hall
Spungin, Nathan	49		58 Granite
*Stachelek, Aloysius	50	Clinton	
Stavrianos, Nicholas	47	Vancouver, B. C., Can.	18 Claremont
Steeves, Frederic V.	Ed g	Leominster	
Stepanski, Matthew	Ed g		106 Woodland
Stessel, George John	47	Auburn	
Stevens, Allison Page	47	Marlboro	
Stevens, Donald Eberhardt	50	Branford, Conn.	2 E. Main, Oxford
Stewart, Gilbert Boynton	49	W. Boylston	
Stone, William Edward	49		7 Schussler Rd.
Stoneman, Elvyn Arthur	G g	Lincoln, Neb.	38 Benefit
Streeter, Delena Elizabeth	50		728 Burncoat
Stuebi, Winifred Louise	47	Springfield	Woodland Hall
Stuebi, Theodore Grove, Jr.	50	Springfield	Estabrook Hall
Stupak, Ralph John	49	Leominster	446 Park Ave.
Sturtevant, Thomas Charles	50	Concord	160 Woodland
Sullivan, Arthur Francis	Ed g	Holden	
Sullo, Joseph Gene	47	Waterbury, Conn.	845 Main
Sumner, Alfred Rockwell	G g	Gilmanton, N. H.	17 Worcester, Grafton
Supovitz, Irving Louis	50		34 Pattison
Svenson, Chester Frederick	48		30 Button

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Swana, Michael Richard	50	Dudley	6 Kilby
Swenson, Richard Walther	49	Garden City, N. Y.	74 Florence
*Szynal, Walter Joseph	49	Webster	
Tagliavini, Carlo Armand	48	Springfield	Estabrook Hall
Tait, Pauline Mae	47		10 Suburban Rd.
Tatham, Lewis Charles	49	Rockland, Me.	Estabrook Hall
Theodore, Louise	47		8 Bluff
Thomas, Constantine	50	Lowell	32 Hitchcock
Thomson, John Roy	49		766 Main
Thurlow, Henry Anderson	48	Leominster	
Tillotson, Arline May	50		98 Perry Ave.
Tivnan, Edmund Lincoln	49		109 Endicott
Todd, Joseph R.	49		15 Chadwick
Tothill, William Robert	50	Wheelwright	40 Richards
Townsend, Joyce	49	E. Woodstock, Conn.	Woodland Hall
Travers, William Owen, Jr.	47		5 Kimball
Tucker, Jean Cushman	48		9 Colonial Rd.
Tufenkjian, Haig Robert	48		57 John
†Tuller, Ann Ellion	50		5 Paul Revere Rd.
Turo, Joseph Anthony	50		9 Shamrock
Tuttle, Jean Wishart	47		125 Malvern Rd.
*Tyler, John Edward, Jr.	Ch g		2 Forest
Tyler, Robert Joseph	50		2 Forest
Ursoleo, Francis Paul	49		156 Shrewsbury
Valiton, Carl Donald	48	Templeton	
Vamvas, Joanne Helen	49		100 Richmond Ave.
Vance, James Elmon, Jr.	48	Natick	Estabrook Hall
Vandersea, Mary Louise	49	Whitinsville	
*Van de Workeen, Ivan Boris	Ch s		14 Charlotte
Van de Workeen, Melvin Charles	47		14 Charlotte
Van Steenburgh, David Raymond	50	Nutley, N. J.	10 Charlotte
Vasil, George Victor	50		6 Rice Sq.
*Vernon, Paul J.	Ps g	Pittsfield, N. H.	
Vickers, Harold Earl	49		138 Woodland
Vilandre, Charles Victor	49		48 Plantation
Wade, Harold Hamilton, Jr.	47	Natick	
Wahlberg, Bertil Lennart	50		24 Roseland Rd.
Wahlstrom, Edmund John	50		5 Lanark
Warner, Maureen Mildred	H g		51 Howland Ter.
Washburn, Elaine	50		9 Congress
*Waters, Herbert R., Jr.	50	Sterling	
Weagle, Ervin Eldred	50	Shrewsbury	
Webster, Priscilla Alden	50	S. Weymouth	Fanning Hall
Weiner, Milton Gershon	Ps g		17 Varnum
Weinstein, Milton	49		161 Providence
Weinstein, Seymour	48		161 Providence
Weisberg, Leonard R.	50	New York, N. Y.	Estabrook Hall
Weiser, Mona	47	Vineland, N. J.	15 Oberlin
Wells, Jacquelyn True	50		Woodland Hall
*Welsh, John Francis, Jr.	50		18 Ingalls
Westcott, Roger Temple	50	Belmont	Estabrook Hall
*White, Virginia Mary	50		45 Woodland
Whitney, Howard Wright	48		20 Hollywood
Wicks, Robert Hascal	50		44 Bellevue
Wick, Walter Oddmund	H g	Salisbury, Conn.	171 Woodland
Wiles, Shirley Madelyn	B s	Shrewsbury	
Williams, Clarence Stewart	G g		9 Dellwood Rd.
Williams, Malcolm	48		79-2 Park Ave.
Williams, Ruth Anna	49	Northbridge	
Wilson, Carol	49		11 Berwick
*Winslow, David Clinton	G F	Stillwater, Okla.	111 Granite
Winslow, Ernest Albert, Jr.	50	Yarmouth, Me.	Estabrook Hall
Wilson, Martin Charles	49		35 Grenada
Witkowski, Florence Joanne	50		136 Washington
Woessner, Russell Howard	50	Lowell	34 Gates
Wolcott, Henry Freeman, Jr.	50	W. Hartford, Conn.	Estabrook Hall
Wolfson, Jack Leonard	48		929 Pleasant
*Wolfson, Richard Stanley	49	Springfield	36 Richards

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Woodrich, Helga	50		638 Chandler
†Woods, John Francis	50		102 Whitmarsh Ave.
Woolf, Martin Dell	50		127 Providence
Woolson, Gloria Dolores	50		102 Providence
Worth, Melvin Hersh, Jr.	50	New York, N. Y.	Estabrook Hall
†Wright, Cuthbert	H s		Assumption College
†Wright, Enoch Gragg	50	Brimfield	
Wylie, William James, Jr.	49	Feeding Hills	59 Maywood
Xenos, Richard Anthony	50		65 Orchard
Yacuzzi, Thomas Joseph	48	Shrewsbury	
†Yoffe, Graenem Abba	48		59 S. Lenox
Young, D Albert	49		18 Otsego Rd.
*Young, Marie LaVerne	Ch s		54 Malden
Yurkiewicz, Edward Francis	48		63 Providence
Zaharatos, Andrew John	50	New York, N. Y.	Estabrook Hall
Zarrella, William Michael	Ch F		5 Dudley Pl.
Zebrak, Nathan	47		16 Wabash Ave.
Zimmerman, Herbert Edward	50	Brookline	21 Grand
Zitowitz, Leon Robert	49		105 Dorchester
Ziu, Mary	48	Southbridge	
Zohn, Harry	Ed g	Dorchester	22 Preston
Zuckerman, Lee Barry	BA s		13 Cottage
Zukowski, Walter Henry	48		55 Arlington
Zulieve, Anthony Joseph	47		13 Ashmont Ave.

II. SUMMER TERM STUDENTS (1946)

Abrahamson, Sherman R., Worcester
Adams, Edmond S., Mattapan
Adams, Evelyn M., Worcester
Adrian, Richard F., Worcester
Agulnick, Sidney, Worcester
Ahlstrom, John R., Worcester
Aisenberg, Howard, Worcester
Alberts, George I., Worcester
Allegrezza, Nello A., Milford
Allen, John W., Worcester
Alpert, Sonya, Worcester
Anderson, Agnes D., Worcester
Anderson, Donald F., Worcester
Andreson, Phyllis, Worcester
Andrews, Forrest, Uxbridge
Angell, Byron H., Millbury
Arbour, Joan, Worcester
Arnaudet, Madeline, Simsbury, Conn.
Arnold, Bernard, Worcester
Arva, William M., Massilon, Ohio
Atwood, Richard F., Worcester
Avery, Charlotte H., Worcester

Bachand, Clifford B., Worcester
Baird, Malcolm E., Worcester
Baker, Mary L., Cambridge
Baker, Natalie L., Worcester
Baker, Stephen H., Worcester
Barsoum, Elias S., Worcester
Basiul, Walter J., Worcester
Baumgartner, Franklin W., Leominster
Bearfield, Henrietta T., Washington, D. C.
Beck, Robert N., Worcester
Becker, Herbert R., Wrocester
Becker, Jean M., Worcester
Begley, Jean E., Worcester
Belles, Earl M., Worcester
Benigno, Russell A., Union City, N. J.
Berlyn, Sumner, Worcester
Berman, Seymour, Dorchester
Bernatowiczs, Albert J., Worcester
Bernier, Emil L., Webster
Bernklow, Rodger D., Thompson, Conn.
Bibeau, Robert W., Worcester
Bilsey, Barbara M., Worcester
Blatz, Paul E., Pittsburgh, Pa.
Bogosian, Paul, Worcester
Bortman, David R., Dorchester
Bouffard, Albert J., Worcester
Boursy, John J., Worcester
Boxshus, John P., Worcester
Braman, Robert E., Auburn
Britton, Judith C., Leominster
Brodsky, Barbara E., Worcester
Brooks, Catherine L., Washington, D. C.
Brooks, Harriet, Worcester
Brown, William J., Shrewsbury
Buckley, John F., Worcester
Burack, Joseph, Shrewsbury
Burke, Beatrice L., Hammond, Ind.
Bush, Everett H., Westfield
Butenas, Carl, Gardner
Butler, Therese I., Worcester
Butterfield, Ruth A., Westminster

Caisse, Shirley M., Millbury
Callender, Joseph H., Roxbury
Cardozo, Robert L., Montreal, P.Q., Canada
Carini, Louis P., Framingham
Carlson, Howard W., Worcester
Carmody, Catherine A., Worcester
Carruth, William G., Shrewsbury
Caruso, Mary L., Burlington, N. J.
Carvalho, Vincent G., East Pepperell
Chafetz, Morris H., Worcester
Chafitz, Herbert D., Worcester
Chamberlin, Thomas W., Charlestown, Ill.
Champeau, Harold C., Quincy
Chandler, Arnold E., Worcester
Chandler, Kenneth A., Sterling Jct.

Charbonneau, Leo J., Worcester
Chartier, Pauline F., Webster
Chase, Arnold D., Worcester
Chavoor, Ashur G., Worcester
Civin, Robert H., Spencer
Clapkin, Marvin B., Albany, N. Y.
Clark, John P., Oxford
Coghlin, Cynthia, Worcester
Cohan, Herbert B., Worcester
Collins, Loren L., Nanticoke, Pa.
Cook, Charles H., Portsmouth, N. H.
Cormier, Carlton F., Marlboro
Coughlin, Margaret M., Leominster
Cournoyer, Paul R., Spencer
Craig, Rupert M., So. Lancaster
Crommett, Alfred F., Worcester
Cronin, Herbert D., Worcester
Cullin, Florence, Denton, Texas

Dacey, Marion I., Worcester
Dalrymple, Paul C., Worcester
Dand, Virginia W., Worcester
Davey, Marguerite, Wanamie, Pa.
Davin, Edward M., Worcester
Davis, Alice I., Worcester
Day, Richard L., Kittery Point, Maine
Dean, John H., Oswego, N. Y.
Deignan, Francis J., Worcester
de Jonge, Coen K., Levanna, N. Y.
Del Rosso, Stephen, Dorchester
Denardo, John E., Waterbury, Conn.
Derosier, Albert P., Worcester
Dix, Ernest S., Starrucca, Pa.
Donnelly, James P., Worcester
Donoghue, Sheila, Worcester
Donohue, Harry J., Teaneck, N. J.
Dorris, Fern E., Milledgeville, Ga.
D'Ostuni, Leonard F., Worcester
Dowd, Earl E., Worcester
Doyle, Henry M., Hudson
Driscoll, Katherine E., Worcester
Dryer, Arthur O., Waterbury, Conn.
Duffy, Thomas F., Worcester
Dumas, Frances J., Sturbridge
Dunleavy, Gareth W., Putnam, Conn.

Eckman, Harold, Worcester
Edson, Robert K., Pike, N. H.
Eliopulos, Wona, Worcester
Eliopulos, James N., Worcester
Epstein, Norman G., Worcester
Ericson, Marion F., Auburn
Erlich, Alfred S., Webster
Errede, Michael A., Worcester
Esterly, Henry H., Groton
Every, Leonard, Glens Falls, N. Y.

Factor, Robert B., Bridgeport, Conn.
Felton, Lester M., Jr., Worcester
Femina, Anthony J., Milford
Ferguson, Jerome O., New York, N. Y.
Finks, Martin B., Dorchester
Finn, Dana E., Rutland
Fitzmaurice, Henry F., Worcester
Flynn, Ann P., Holyoke
Foley, John B., Worcester
Foley, John F., Fall River
Foor, James H., Sutton
Franklin, Jacob, Webster
Freas, Mary S., Berwick, Pa.
Freeman, Phyllis, W. Palm Beach, Fla.
French, James C., Worcester

Gale, Richard D., Worcester
Gately, Edward J., Hudson
Gaulin, Leon L., Oxford
George, John C., Worcester
Giaquinto, John A., Worcester
Gibson, Stuart C., Grafton
Gillespie, Arthur M., Northbridge
Gilligan, Frances O., Worcester
Gladstone, Robert K., Brooklyn, N. Y.
Glazier, Glenadine R., Whitinsville
Glazier, Raymond E., Worcester
Golner, John R., Roxbury
Goodman, Charles D., Brooklyn, N. Y.
Graden, Thurston H., Worcester
Graham, Richard H., Worcester
Graham, Russell A., Worcester
Green, Howard L., Newark, N. J.
Green, Robert F., Worcester
Green, Ruth E., Worcester
Gregory, Harold A., Worcester
Grenier, Raymond L., Worcester
Griffin, Ella W., Westboro
Griffin, Margaret M., Worcester
Grove, Harvey, Worcester
Gruss, Sally R., Norwalk, Conn.
Gudzinowicz, Benjamin J., Worcester
Guerin, Henry J., Quinebaug, Conn.
Guest, Ann, Princeton
Gullbrand, Howard A., Worcester
Gurfinkel, Abraham L., Worcester
Gustafson, Roland J., Worcester

Haddad, Richard J., Worcester
Hague, Gladys E., Worcester
Hahn, Clement F., Worcester
Haley, Margaret A., Westboro
Halko, Henry J., Webster
Hall, Marie N., College Station, Texas
Hall, William C., College Station, Texas
Hallahan, John J., Worcester
Hammarstrom, Everett J., Worcester
Handleman, Chester, Worcester
Hansen, Arthur R., Worcester
Hanson, Martha E., Worcester
Haroian, Mary, Worcester
Harris, William E., Worcester
Harrison, Nathan B., Worcester
Harvey, Sanford W., Worcester
Hearn, George B., Worcester
Hearn, Lea T., Attleboro
Hedberg, Harold W., Worcester
Held, Colbert C., Clinton, Miss.
Hess, Clarke F., Norristown, Pa.
Hill, Raymond B., Worcester
Hill, William A., Birmingham, Ala.
Holland, Howard O., Worcester
Hortman, Helen E., Worcester
Hortman, Jacob C., Jr., Worcester
Howe, Catherine H., Worcester
Hughes, Walter J., Worcester
Hultquist, Warren E., Millbury
Husisian, Alice, Worcester

Illingworth, Robert K., Worcester
Isenberg, Slater K., Worcester

Jackson, Richard E., Shrewsbury
Jameson, Harold, Jr., Worcester
Jamgochian, Hagop H., Shrewsbury
Javery, Milton H., Worcester
Jewell, Warren W., Webster
Jodoin, Alda H., Worcester
Johanson, Doris E., Worcester

Johnson, Donald E., Harvard
Johnson, Shirley M., Holden
Johnson, Sonya, Worcester
Johnston, John M., Leicester
Jones, Dudley P., Worcester
Jones, Julia P., Buffalo, N. Y.
Jordan, Robert L., Worcester
Joudrey, Harold E., Worcester

Karolkewicz, Henry V., Worcester
Katte, Martin Jr., Arlington, Va.
Kaufman, Mendel J., Worcester
Keegan, Martin L., Jr., Dalton
Kelleher, Robert L., Worcester
Kellermann, Frederick D., Worcester
Kellermann, Mary C., Worcester
Kellogg, David H., Springfield
Kelly, Rita M., Spencer
Kemp, James M., Worcester
Kenneally, Joseph T., Worcester
Killoran, John J., Worcester
Kilmer, Jean, Grafton
Kleinberg, Donald R., Worcester
Kneeland, David J., Worcester
Knox, Roy I., Worcester
Kondratowicz, Francis J., Dudley
Kouri, Joseph J., Peekskill, N. Y.
Kuivila, V. Theresa, Worcester
Kuniholm, Carl A., Gardner
Kurtyka, Joseph W., New Britain, Conn.
Kushner, David S., Worcester

Laakso, Eino F., Sturbridge
Laggis, Mary C., Ayer
Lambert, Lewis H., Worcester
LaPlante, Bernard J., Worcester
Larson, Knute G., Worcester
Latham, George R., Worcester
Lautz, Ida M., Buffalo, N. Y.
Lavine, Richard B., Webster
Laws, John S., Worcester
Layport, Mary J., Worcester
LeBlanc, Ozias P., North Oxford
Leighton, Stanford M., Newton Centre
Lekas, Mary D., Worcester
Lennan, Albert K., Worcester
Lennan, David R., Worcester
Lennan, Geoffrey W., Worcester
Lenti, Frank M., Worcester
Leonard, Marjory, Shrewsbury
Leone, Anthony D., Worcester
Lilley, John R. II, Worcester
Lockwood, Joan Z., Worcester
Lockwood, Kenneth G., Worcester
Loeffler, Robert J., Worcester
Longton, Russell C., Worcester
Lopez, Manuel H., Brooklyn, N. Y.
Lucas, Elizabeth A., Worcester
Lucas, Frances S., Worcester
Luebbe, Carl Jr., Upton
Lumb, Ralph F., Shrewsbury
Lurier, Harold E., Worcester
Lynch, Robert R., Leominster
Lynch, Thomas J., Worcester

Macchi, Italo A., Worcester
MacShawson, Irving, Worcester
MacDonald, Marjorie, Worcester
MacKay, Norman D., Worcester
Magnusson, Roger P., Worcester
Mainville, Joseph M., Rochdale
Malick, Donald, New Bedford
Mancevice, Ruth B., Worcester
Mann, Walter Jr., Sterling
Manzi, Lucian A., Shrewsbury
Margolin, Natalie, Leominster
Maria, Albert, Willimansett
Marion, Raymond J., Gardner
Marsh, Donald W., Princeton
Martin, Eleanor, Marlboro
Martineau, Donald, Auburn
Mason, I. Edward, Worcester
Matern, Herman R., Worcester
Matheson, Frederick G., Narberth, Pa.
Mauke, Otto R., Webster
Mazur, Bernard, Worcester
McCarthy, Bernard W., Worcester
McCarthy, Robert V., Worcester
McCaw, Dorothy N., Worcester
McDonough, Robert R., Worcester
McDonough, Thomas J., Jr., Worcester
McGill, Charles E., Worcester
McKeeman, Gordon B., Worcester
McKenna, William E., Worcester
McMenimen, Joseph P., Cambridge
McTiernan, James J., Worcester
Mero, Esther B., Worcester
Merzigian, Jacob, Worcester
Michelson, Stanley L., Worcester
Miller, Gordon T., Worcester
Morello, Mary I., Worcester
Morgan, Lewis W., Hamden, Conn.
Moriarty, John J., Worcester
Moseley, William R., Worcester
Mullaney, Katherine A., Worcester
Mullen, Mary B., Leominster
Murphy, Cornelius B., Worcester
Murphy, Paul F., Worcester

Nelson, Donald R., Worcester
Nelson, Paul E., Worcester
Nelson, Paul J., Worcester
Nickerson, Shirley L., Worcester
Norton, James A., Jr., Worcester

O'Connell, Anne E., Worcester
Ohman, Howard L., Worcester
O'Keefe, John F., Worcester
O'Keefe, Robert J., Worcester
O'Leary, Daniel R., Worcester
Olson, Ralph E., Newman Grove, Nebraska
Olund, Paul H., Worcester
O'Mara, Ann M., Worcester
O'Neil, Edward G., Worcester
O'Toole, Theresa M., Clinton
Oudheusden, Frank P., Rye, N. Y.

Pachanian, Sempad A., Worcester
Pagnotto, Leonard D., Fitchburg
Paly, Sidney N., Brooklyn, N. Y.
Parmenter, Guy N., Burwell, Nebraska
Passey, George E., Wrentham
Peepels, Kenneth J., Franklin, Pa.
Pemstein, Bernard L., Worcester
Peterson, George A., Jr., Worcester
Peterson, Philip E., Portland, Me.
Philip, George L., Worcester
Pileggi, J. Rose, Worcester
Pimentel, David, Middleboro
Piper, Ada G., Washington, D. C.
Plakstis, Peter J., Jr., Worcester
Plue, Bradford B., Worcester
Pooley, Richard A., Tampa, Fla.
Pooley, Ruth M., Tampa, Fla.
Pope, Henry W., Jr., Naugatuck, Conn.
Popielarczyk, Alexander, Clinton

Porochniak, Paul S., Salem
Porter, Charles W., Agawam
Pratt, Kenneth W., Leicester
Priest, Andrew G., Fitchburg
Prue, Arthur A., Delmar, N. Y.
Putnam, Emmons W., Jr., Worcester

Queen, Adelle L., Worcester
Quinn, Margaret, Whitinsville

Raboin, Joseph A. R., Fitchburg
Raphaelson, Francis B., Worcester
Reed, Benjamin C., Jr., Portsmouth, R. I.
Reid, Jean E., Worcester
Retallick, Harold, Eau Claire, Wis.
Richard, Robert C., Melrose
Rinkus, Louis P., Castle Shannon, Pa.
Riordan, James F., Worcester
Risley, Edward M., Springfield
Roche, Helen G., Worcester
Ross, Theodore J., Worcester
Rowley, Ruth E., Worcester
Roy, Richard A., Worcester
Roycewicz, Stephen J., Worcester
Rubin, George, Brooklyn, N. Y.
Ruderman, Thera C., Worcester
Rumpal, Bruno, Springfield
Rupkus, Ruth C., Worcester
Russell, John E., Worcester
Ryan, Helen C., Webster
Ryan, John D., West Newton

Sabolinski, Donald E., Amherst
Sampson, Donald H., Worcester
Sandberg, Richard P., Worcester
Sargent, William F., New Haven, Conn.
Sawyer, Ivers S., Berlin
Scheurer, Michael C., Worcester
Schlafman, Irving H., Haverhill
Schollard, John, Worcester
Settle, Mildred, Washington, D. C.
Shannon, William V., Worcester
Shaw, John P., Newport, R. I.
Sheehan, Francis P., Worcester
Shepard, Robert L., Worcester
Sher, David B., Worcester
Shields, Richard J., Agawam
Shimukonis, Frank J., Worcester
Shooshan, Charles H., Worcester
Silverberg, Edward J., Holden
Simpson, Paul E., Worcester
Sinclair, Edward E., Worcester
Singer, James P., Collingswood, N. J.
Singer, John J., Jr., Collingswood, N. J.
Sister M. Clarissima, C.S.B., Reading, Pa.
Sister Mary Gregoria, C.S.B., Reading, Pa.
Skogstrom, Paul R., Worcester
Slagle, Robert O., N. Woodstock, N. H.
Sloan, James H., Worcester
Smith, Arthur K., Worcester
Smith, Elizabeth, Worcester
Smith, George H., Weeks Mills, Maine
Smith, John P., North Lancaster
Smith, Richard S., Worcester
Smith, Samuel W., Jr., Sheffield, Ill.
Sommerstein, Hannah, Allerton
Specht, Ellen M., Oconto, Wis.
Specht, Raymond E., Oconto, Wis.
Stavrianos, Nicholas, Northampton
Stein, Shirley S., Worcester
Steinbeck, Frank H., Jr., Worcester
Stepanski, Matthew, Millbury
Stessel, George J., Auburn
Stevens, Allison P., Marlboro
Stone, William E., Worcester
Stoneman, Elvyn A., Lincoln, Nebraska
Strzelecki, Sigmond R., Worcester
Stupak, Ralph J., Leominster
Sullivan, Edward P., Worcester
Sullivan, Leo M., Worcester
Suitcliffe, Harry M., Jr., Millbury
Swan, Edward J., Jr., Worcester
Sweeney, Edwin A., Worcester
Sweeney, Joan M., Worcester
Swenson, Richard W., Garden City, N. Y.

Tagliavini, Carlo A., Springfield
Talman, Marilyn E., Worcester
Tarrant, James J., Jr., Haverhill
Tatham, Lewis C., Rockland, Me.
Taylor, Gretchen D., Spencer
Tebbetts, Kathryn M., Nashua, N. H.
Thieben, Eve M., Worcester
Thurlow, Barbara C., Leominster
Thurlow, Henry A., Leominster
Tiegermann, Eric F., Worcester
Todd, Joseph R., Worcester
Townsend, Joyce, East Woodstock, Conn.
Tracey, Thomas H., Worcester
Tufenkjian, Haig R., Worcester
Turo, Joseph A., Worcester

Ulian, Norma E., Worcester

Valiton, Carl D., Templeton
Vamvas, Joanne H., Worcester
Vamvas, Robert J., Worcester
Vance, James E., Jr., Natick
Van de Workeen, Melvin C., Worcester
Vernon, Paul J., Pittsfield, N. H.
Viens, Roger G., Worcester

Wade, Alan B., Natick
Wald, Leon J., Worcester
Watson, Virginia A., Washington, D. C.
Weiner, Barbara E., Worcester
Weiner, Milton G., Worcester
Weinstein, Milton, Worcester
Weinstein, Seymour, Worcester
West, Albert G., Whitinsville
Wheeler, Russell A., Shrewsbury
Whitney, Howard W., Princeton
Wick, Walter O., Salisbury, Conn.
Williams, Clarence S., Worcester
Williams, Malcolm, Worcester
Wilson, Carol, Worcester
Wilson, Martin C., Worcester
Wolfson, Richard S., Springfield
Writer, Hazel S., Worcester
Wylie, William J., Jr., Feeding Hills

Yanover, Morton M., Worcester
Yoffe, Graenem A., Worcester
Young, D Albert, Holden
Yurkiewicz, Edward F., Worcester

Zebrak, Nathan, Worcester
Zelkind, Lawrence K., Worcester
Zitowitz, Leon R., Worcester
Zuckerman, Lee B., Worcester
Zukowski, Walter H., Worcester

III. THOSE IN RESIDENCE LESS THAN ONE SEMESTER, 1946-47

NAME	CLASSIFICATION
Alberts, George Irving	48
Blatz, Paul E.	50
Brooks, Roger Howard	50
Caffrey, Edward Francis	H g
Cheever, Clinton Turner	50
Dacey, Marion Irene	48
Dufresne, Roger Joseph	Ch s
Edson, Robert Kendon	50
Fryer, Warren Robert	50
Gaulin, Leon Ludger	49
Gruss, Sally Ruth	49
Kaeble, Raymond Richard	50
Kelly, Dorothy Margaret	Ch g
Knoll, Phyllis Charlotte	49
Lindahl, Carl Edward	50
McInerny, Phyllis Anna	RL s
McMenimen, Joseph Paul	49
Minervino, Lawrence F.	50
Nizinski, Vincent Theodore	50
O'Neill, Lorraine Rita	50
Pfau, Myra Joan	50
Putnam, Margery Meryle	48
Rose, Frank Albert	50
Russell, Margaret Mary	En s
Sharry, Joseph D.	Ch s
Slagle, Robert Oakley	49

SUMMARY 1946-47

			Men	Women	Total
Undergraduates			528	213	741
	Men	Women			
Freshmen	212	83			
Sophomores	160	63			
Juniors	71	34			
Seniors	85	33			
Graduate Students			103	28	131
Special Students			16	16	32
Candidates for the B.Ed. degree			—	2	2
Summer Term (1946)			373	117	490
Total			1020	378	1396
Less Duplications			236	46	282
Net Total			784	331	1114

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Inquiry Blank

Correspondence should be addressed as follows:

Regarding admission to the college or to the summer term, to the Dean of the College.

Regarding admission to the graduate school, to the chairman of the department in which the applicant is interested.

Regarding admission as a special student or as a candidate for the degree of Bachelor of Education, to the Recorder.

Applications should be filed as early as possible. *Unduly late applications may fail to receive consideration.*

Applications for admission in September should, so far as is possible, be filed before March 1.

CLARK UNIVERSITY

REQUEST FOR "APPLICATION FOR ADMISSION" BLANKS

Name ....

(Last name) **(First name)** **(Middle name)**

Mail address ....

....

....

I am interested in admission to (please check below):

The men's college ....

The women's college ....

The graduate school ....

I am particularly interested in the department or division of:

....

I plan to enter (date) ....

Date of this application ....

CLARK UNIVERSITY

Commencement Week

PROGRAM

1947

THURSDAY MAY TWENTY SECOND

Senior Promenade 9 - 1

FRIDAY MAY TWENTY THIRD

Alumni Council 4 P M
Lounge Room Alumni Gymnasium

Gryphon Reunion Dinner 6 P M

SATURDAY MAY TWENTY FOURTH

Alumni Day

Annual Meeting Alumni Association 10 A M
Lounge Room Alumni Gymnasium

Class Day Exercises 11 A M
Atwood Hall

Alumni Luncheon 1 P M
Alumni Gymnasium

Reception to Alumni
and their Families 4 - 6 P M
at the home of
President and Mrs. Jefferson

Alumni Reunion Dinners 6:30 P M

SUNDAY MAY TWENTY FIFTH

Baccalaureate Services 10 A M
Atwood Hall
Address by
The Reverend Thomas Sherrard Roy
First Baptist Church

Commencement Exercises 4 P M
Atwood Hall
Address by
John Mason Brown

Following the Commencement Exercises President and Mrs. Jefferson will hold a reception at their home for the graduates, their families, and guests of the University.

Admission to the Commencement Exercises is by ticket only.

Reservations for Alumni for Commencement events should be made through the Alumni Office. Tickets for the Alumni Luncheon are $1.75 (tax included) and may be obtained from the Alumni Office. Reservations for the Luncheon must be made before Monday, May nineteenth.

Special reunions will be held by the Classes of 1907, 1912, 1917, 1922, 1927, 1932, 1937, 1942, and 1946.

CLARK UNIVERSITY

Baccalaureate Service

In Atwood Hall

May Twenty-fifth Nineteen Hundred and Forty-seven

At Ten O'Clock

PROGRAM

Air From Suite in D *Bach*

Andante Cantabile *Tschaikovsky*

Vision *Rheinberger*

Processional

Invocation President Howard B. Jefferson

Scripture Reading
Micah 4:1-5; 6:6-8 President Howard B. Jefferson

Hymn
"Glorious Things of Thee Are Spoken"

Baccalaureate Sermon
"The Scale of Observation" The Reverend Thomas S. Roy
First Baptist Church

Hymn
"Lead On, O King Eternal"

Benediction The Reverend Thomas S. Roy

Recessional

Postlude Allegro from Sonata in b Minor *Guilmant*

GLORIOUS THINGS OF THEE ARE SPOKEN

John Newton 1779 *Franz Joseph Haydn 1797*

Glorious things of thee are spoken, Zion, city of our God;
He whose word cannot be broken Formed thee for His own abode:
On the Rock of Ages founded, What can shake thy sure repose?
With salvation's walls surrounded, Thou may'st smile at all thy foes.

See, the streams of living waters, Springing from eternal love,
Well supply thy sons and daughters, And all fear of want remove;
Who can faint, when such a river Ever will their thirst assauge?
Grace, which, like the Lord the Giver, Never fails from age to age.

Round each habitation hovering, See the cloud and fire appear
For a glory and a covering, Showing that the Lord is near:
Thus deriving from their banner Light by night and shade by day,
Safe they feed upon the manna Which He gives them when they pray.

LEAD ON O KING ETERNAL

Ernest W. Shurtleff 1888 *Henry Smart 1836*

Lead on, O King Eternal, The day of march has come;
Hence-forth in fields of conquest Thy tents shall be our home:
Through days of preparation Thy grace has made us strong,
And now, O King Eternal, We lift our battle song.

Lead on, O King Eternal, Till sin's fierce war shall cease,
And holiness shall whisper The sweet Amen of peace;
For not with swords loud clashing, Nor roll of stirring drums,
But deeds of love and mercy, The heavenly kingdom comes.

Lead on, O King Eternal, We follow, not with fears,
For gladness breaks like morning Where'er Thy face appears:
Thy Cross is lifted o'er us; We journey in its light;
The crown awaits the conquest; Lead on, O God of might.

Organist: Mrs. Stanley N. McCaslin

The audience is requested to stand while the procession leaves the hall

CLARK UNIVERSITY

Fifty-seventh Annual Commencement

MAY 25 1947

WORCESTER MASSACHUSETTS

Order of Exercises

Prelude

Two Chorale Preludes *Bach*

Let Us Together Praise Our God
Blessed Jesu, We Are Here

Processional

Invocation THE REVEREND THOMAS S. ROY
First Baptist Church

Announcements by the President

Commencement Address JOHN MASON BROWN

Conferring of Degrees

Benediction THE REVEREND THOMAS S. ROY

Recessional

The audience will kindly remain
standing during the recessional

Candidates for the Degree of Bachelor of Business Administration

Edward John Gately
Henry Victor Karolkewicz
Jacob Merzigian
Kenneth Oscar Nelson
Everett Renhult Nordstrom
Frank Anthony Nicholas Papale Jr.
Alex Michael Pappas
George Louis Philip
Harold Irving Sherman
Nicholas Stavrianos

Candidates for the Degree of Bachelor of Arts

Herbert Irving Abelson
George Adamian
Edmond Samuel Adams
Priscilla Marie Anderson
Joan Arbour
Chris Argyris
Robert Nelson Beck
Seymour Berman
Howard John Besnia
Robert Edward Braman
Betty Brearley
Carolyn Jean Burns
Gloria Chigas
Cynthia Coghlin
Stuart Mitchell Cohen
Mildred Hart Craig
Alfred Freeman Crommett
Paul Clement Dalrymple
Aldona Davidonis
John Lovewell Day
Stephen DelRosso
Hagop Martin Deranian
Richard Baker Ellis
Robert Benjamin Factor
Robert Edward Freeman
Irma Gloria Frey
Paul Joseph Gardner
Jesse Arthur Gates
Raymond Eugene Glazier
Harriet Seder Goldstein
Howard Leon Green
Raymond Louis Grenier
Benjamin John Gudzinowicz
Everett John Hammarstrom
Frank Henry Healey Jr.

Annual Collegiate Honors

SENIORS

First Honors

Chris Argyris
Robert Nelson Beck
Richard Henry Desroches
Howard Leon Green
Italo Alden Macchi
Howard Leonard Ohman
Geraldine Elizabeth Rice
Keith Morton Schneider
William Vincent Shannon
Elizabeth Smith

Second Honors

Cecile Elizabeth Craig
Robert Edward Freeman
Benjamin John Gudzinowicz
Frank Henry Healey Jr
Mendel Joseph Kaufman

JUNIORS

First Honors

Ralph Elliott Cook
Virginia Wyman Dand
Walter Henry Zukowski

Second Honors

Reginald Amback Jr
Malcolm Everett Baird
David Richard Bortman
Herbert William Cramer
Lois Walbridge Kunzelman
Harold Edmond Lurier
J Alfred Roland Raboin
Bernard Herman Shulman
Doris Gustava Sistrand
James Elmon Vance Jr
Mary Ziu

SOPHOMORES

First Honors

Albert John Bernatowicz
Howard Irving Dickinson
Joyce Townsend

Second Honors

Doris Gertrude Audette
Paul Bogosian
Ina Thebe Cohen
Harry Joseph Donohue
Gladys Elizabeth Hague
Henry James Halko
Beverly Morton
Burton Aldrich Robie
Richard Walther Swenson

FRESHMEN

First Honors

Benedict Oliver Olson
John Donaher Ryan
William Warren Sanford

Second Honors

Carl Butenas
Raymond John Caefer
Leonard Earl Emelfarb
Herbert Arthur Haworth
Gerald Philip Loweth
Beatrice Donovan Neary
Kenneth Shulman
Samuel Wallace Smith

Candidates for the Degree of Bachelor of Arts (Cont'd)

Richard Errol Jackson
Theodore Burton Jacobs
Kathryn Ann Jerome
Robert Lincoln Jordan
Richard Hardie Kilpatrick, Jr.
Joseph John Kouri
Estelle Adelle Mary Lavoie
Frank Michael Lenti
Ralph Francis Lumb
Italo Alden Macchi
Warren Read Magoun
Charles William McNamara
John Webster McNamara
Shirley Miriam Michelman
Drusilla Monroe
Marguerita Pantos
Julia Rose Pileggi
Andrew George Priest
Robert Benjamin Resnick
Donald Harding Sampson
Keith Morton Schneider
Kenneth Alton Senter
Richard James Shields
Louis John Shopes
Joseph Edward Silverberg
Marilyn Ethel Smith
Hannah Sommerstein
Allison Page Stevens
Winifred Louise Stuebi
Joseph Gene Sullo
Pauline Mae Tait
Louise Theodore
Jean Wishart Tuttle
Harold Hamilton Wade Jr.
Mona Weiser

Candidates for the Degree of Bachelor of Arts with Honor

Muriel Louise Bergstrom *with Honor in General Course*

Cecile Elizabeth Craig *with Honor in General Course and with Honors in History and International Relations*

Ruth Ellen Haddad *with Honor in General Course*

Eleanor Aileen Finneran *with Honors in Romance Languages*

Marie Loff Jameson *with Honors in Romance Languages*

Mendel Joseph Kaufman *with Honor in General Course*

Geraldine Elizabeth Rice *with Honor in General Course and with Honors in Romance Languages*

George John Stessel *with Honor in General Course*

Candidates for the Degree of Bachelor of Arts with High Honor

Richard Henry Desroches *with High Honor in General Course and with Honors in Romance Languages*

Howard Leonard Ohman *with High Honor in General Course*

William Vincent Shannon *with High Honor in General Course and with Honors in History and International Relations*

Elizabeth Smith *with High Honor in General Course and with Honors in Psychology*

Candidates for the Degree of Master of Arts in Education

Sumner Slobin Berlyn
Lillian Cecile Carroll
George Kalil
Joseph Timothy Kenneally
Knute Gunnar Alfons Larson
James Arthur Norton Jr.
Stephen Joseph Roycewicz
Matthew Stepanski
Harry Zohn

Candidates for the Degree of Master of Arts

Biology

Fred Elmadjian

Chemistry

John Joseph Killoran
John Jacob Singer Jr.
William Michael Zarrella

Economics and Sociology

Stanley Parker Hull

Geography

Mali Korgen
Guy Norris Parmenter
Harold James Retallick

History and International Relations

Bruno Rumpal

Psychology

Charles Hannaford Cook
Francis James Deignan
Ellen Anne Elste
Ann Janet Finkenberg
Edward Yervant Kalpakian
Eda Joan LeShan
George Edward Passey
Milton Gershon Weiner

Candidates for the Degree of Doctor of Philosophy

Geography

Gabriel Anthonie LeRoux

Psychology

Ivan J. Birrer
Edwin Kenneth Carpenter

Honorary Degrees

Charles Bunsen Shaw	Presented by Henry Donaldson Jordan
Edward Bates Peck	Presented by Jesse Lunt Bullock
Thomas Sherrard Roy	Presented by Robert Stanley Illingworth
Alexander Hamilton Bullock	Presented by Wallace Walter Atwood
Robert Fiske Bradford	Presented by Walter Elmer Ekblaw
John Mason Brown	Presented by Loring Holmes Dodd

CLARK UNIVERSITY

The President's Report

1946 – 1947

CLARK UNIVERSITY BULLETIN—No. 181 SEPTEMBER, 1947

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CLARK UNIVERSITY

The President's Report

1946 – 1947

Worcester, Massachusetts
1947

CLARK UNIVERSITY

The President's Report for 1946–47

No report on higher education during the past year can avoid reference to the well-publicized fact of the unprecedented number of young men and women who sought admission to our colleges and universities. Most of our institutions responded to this pressure by admitting more students than they could accommodate with ease. Thus were created the urgent problems of housing, of finding adequate laboratory and classroom space, and of expanding the size of the faculty.

Student Enrollment

The problem of student enrollment at Clark University was complicated by the fact that women were admitted to the College in 1942. The decision to include 200 women in the undergraduate division committed us to a larger postwar enrollment quite apart from the general increase caused by the large number of veterans seeking admission. For example, one of the largest enrollments in the years between the two wars was in 1939–40 when 291 were enrolled in the Men's College, 133 in the Graduate School, and 17 as special students. This was a total of 441. Taking this as a norm, and adding the 200 women in the College, we anticipated a postwar enrollment of approximately 650. During the year 1946–47, however, the actual over-all enrollment was 904. As might be expected, the unanticipated increase was in the number of men enrolled in the College where the figure reached 528. It was possible to keep the size of the other groups within the planned limit: 213 in the Women's College, 131 graduate students, and 32 special students. These figures have to do with the regular academic year exclusively, and thus do not include the twelve-weeks Summer School in which more than 400 students were enrolled.

In planning for the fall of 1947, we discovered that further expansion could not be avoided. The largest numbers were concentrated in the freshman and sophomore classes, meaning that a comparatively small number of students graduated in the spring and at the end of the summer session. If we were to hold the enrollment at the 1946–47 figure, it would mean admitting an abnormally small freshman class. After careful consideration of our resources and obligations, and taking into account the large number of veterans still in search of the opportunities of higher education, we concluded that we should make every effort to take care of 100 additional students. Accordingly, the total number of students in the University this fall is 1006.

Although there is considerable variation among the predictions concerning the nationwide enrollment during the next few years, it is perfectly clear that the educational needs of veterans have not yet been met. Clark University has been and is sensitive to these needs and to the demands created by the sheer numbers of qualified students, but there are other considerations which must not be overlooked. It is desirable that we retain variety in the pattern of American higher education. There are the large universities and the small colleges. There are the tax-supported institutions, the church-related colleges, and the independent colleges and universities. It would be a mistake for a university such as Clark to assume that it can best serve the interests of the nation by indefinite expansion. In the past, Clark's influence has been measured in qualitative rather than in quantitative terms. In the long run this should continue to be the case. Thus, while doing our part in the present emergency to meet the demand of veterans for college and university training, analysis of our unique task means that we have now reached the limit of expansion and that, considering our plant facilities, it would be desirable to set the maximum nearer 850 than 1000. Clark's commitment to a quality performance in education involves the work at the graduate level as well as the undergraduate level. Clark is proud to join those other small colleges in America which are maintaining an individualized program of liberal education, but its uniqueness lies in being a small university where both undergraduate and graduate students may work in close association with distinguished scholars.

Increased Costs

In the past, income from student tuition was a very small part of the total operating budget. This was in line with the desire of Jonas G. Clark to have a college in which educational opportunities were available to young men with limited means. Faced with a situation in which income from endowment has declined and costs have increased sharply, it has been necessary to make a number of tuition changes. At the meeting of the Board of Trustees held in April, 1947, it was voted to set the tuition and student fees at the inclusive figure of $400 beginning in September. This is still a moderate charge as compared with other New England colleges. Studies of operating costs in our educational institutions show that there has been a rise of fifty-two per cent since 1940. The new tuition schedule will partially compensate for this increase but it is still true that the student is paying only half the cost of his education. The American Council on Education reports, with something less than optimism, that the gap between income and costs will grow wider as more students enroll.

Housing and the Physical Plant

The problem of housing a large number of students has been less acute at Clark than at many institutions. For one thing, between sixty and seventy per cent of all undergraduates are residents of the city of Worcester or of Worcester County and thus live in their own homes. Again, there are many large houses in that section of the city where Clark is located, and the owners responded most generously to our appeal to open rooms to students. Success in this endeavor is due in large measure to the untiring efforts of Miss Jeanne Belisle, secretary to the Committee on Veterans.

Two other developments have been of help in solving the housing problem. In the first place, Phi Alpha and Lambda Chi Alpha fraternities have purchased houses which accommodate members who are not Worcester residents. In the second place, four Quonset huts have been placed next to Estabrook Hall and these will house thirty-two students. All these developments have contributed to the success in making satisfactory living arrangements for single students. It has been much more difficult to find suitable places for married students. Whatever success has been achieved in this area is due to the work of the Committee on Veterans and to the resourcefulness of the students themselves.

The adaptation of our existing laboratory and classroom space to a substantially increased student body has been made with comparative ease. The physical plant, as a matter of fact, is appreciably larger than a university of 450 or 500 needs. While it can accommodate a student body of 700 to 750, it nevertheless shows definite signs of strain at the present time. Great care has been taken during the past year to improve the lighting and equipment in all laboratories and classrooms. Shortly before the opening of the academic year in the fall of 1946 the Chemical Laboratories were completely renovated, and extensive equipment was procured for the Physics Department. During the past summer a reconditioning of the nine rooms occupied by the Department of Biology was completed. This work on the laboratories and on classrooms has not increased the capacity but has improved the efficiency of the plant. Furthermore, there has been a thorough study of all available space with a view to providing a number of additional offices for the faculty. The task of scheduling classes and of making the best possible use of physical facilities has been accomplished by Mrs. Colby in the recorder's office with the aid of Dean Little and his staff.

The department of buildings and grounds reports that both boilers in the central heating plant were repaired during the past summer. The brick work of the settings was taken down and the settings were completely rebuilt with the use of fire brick on all walls coming in contact with the fire, and the other walls were constructed with required air spaces. The new work has been inspected and we are assured that both our boilers are now as good as new and that the condition of the steel boiler is stronger and better than any new boiler which could be purchased at the present time.

In order to improve the appearance of the campus as well as to provide additional parking space, the front driveway and an enlarged parking lot were covered with a bituminous paving. Evidence of the crowded condition of the University is to be found in parking spaces for automobiles as well as in the classrooms and laboratories.

The dining hall is another place where the large number of students makes heavy demands upon the existing capacity. The difficulties have been at least partially removed by the use of the cafeteria style of serving, by refinishing the hall and refurnishing it with new chairs and tables, and by increasing the efficiency of the kitchen through the purchase of new equipment.

In summary, we have so organized our resources as to serve a greatly expanded student body and faculty, and have maintained high quality in the educational program while making the adjustment. Conditions, however, are not ideal, and both faculty and students have accepted some inconveniences cheerfully on the assumption that the present situation is only temporary.

The Faculty

The problem of faculty personnel for 1946–47 was met in part by the return of several members of our regular staff from war-related activities. For example, Professor Jordan of the Department of History, and Professors Maxwell and Lucas of the Department of Economics, returned after extended leaves of absence.

Also the following new appointments were made:

Raymond E. Murphy, Professor of Economic Geography
Franklin P. Hall, Associate Professor of Economics and Sociology
Donald MacGillavry, Jr., Associate Professor of Chemistry
Philip M. Palmer, Associate Professor of German
Richard J. Lougee, Associate Professor of Physiography
Beverly H. Bowman, Assistant Professor of Economics and Business Administration
Robert F. Campbell, Assistant Professor of History
Owen France, Assistant Professor of Biology
Thomas Q. Gilson, Assistant Professor of Psychology
Sherman S. Hayden, Assistant Professor of International Relations
J. Fannin King, Assistant Professor of Romance Languages
Richard B. Martin, Instructor in Chemistry
Howard K. Moore, Instructor in English
Chester C. Stone, Instructor in Mathematics
Loretta A. Wawrzyniak, Instructor in Romance Languages

In addition to these regular appointments, Charles B. Fawcett, of the University of London, was Visiting Professor of Geography during the second semester; Theodore Nicol was Visiting Professor of Romance Languages during the entire year, carrying the work of Professor David M. Dougherty who was absent on leave; and Lester W. Parker was Visiting Instructor in English. Herbert P. Barnett of the Worcester Art Museum was named Associate Professor (Affiliate) of Fine Arts, Robert S. Booth of the Family Service Organization taught one course in Sociology, and Attorney Philip H. Breen was Visiting Lecturer in Business Law.

Further analysis of our needs resulted in additional appointments for 1947–48. A number of considerations determined the nature of these appointments.

In the first place, great care was given the problem of replacing members of the staff who resigned. Thus, in the Department of Psychology, Heinz Werner was appointed Professor, Sigmund Koch, Visiting Associate Professor, and Clarence Hudgins, Visiting Lecturer. In the Department of Romance Languages, Theodore Nicol was asked to remain as Visiting Professor. Albert C. Gerould was named Librarian. Fred H. Howard was appointed Assistant Professor of Biology.

In the second place, a number of appointments have strengthened the work in existing graduate departments. In planning for the graduate program of training clinical psychologists, Joseph Weinreb, director of the Worcester Child Guidance Clinic, was appointed Professor (Affiliate) of Psychology; Frederick Wyatt of McLean Hospital, and Edith Meyer of the Children's Hospital in Boston were appointed Associate Professors (Affiliate) of Psychology. To supplement the work of Mr. Burnham in cartography in the Graduate School of Geography, Professor Erwin Raisz of Harvard University will serve as Visiting Lecturer in Cartography.

Third, every effort has been made to provide a well-rounded program of undergraduate studies. In two instances, appointments have filled gaps in the college curriculum and also have strengthened graduate departments. For example, in the Department of Economics and Sociology, there has been a strong program in economics, but in recent years the offerings in sociology have been too limited. To correct this situation Frederick W. Killian was appointed Associate Professor of Sociology. Again, in the Department of History and International Relations there has been excellent work in history and in the historical approach to international relations, but the appointment of Morris H. Cohen as Assistant Professor of Government will add the point of view of political science.

Professor Haven D. Brackett retired as Professor of Greek and Latin in the spring of 1946 and no successor was named for the following year. Claude W. Barlow has now been appointed Assistant Professor of Classics, and the large enrollment in his courses demonstrates the need for work in this field.

An unusual number of Clark graduates have entered the teaching profession. In recent years we have followed the principle of encouraging prospective teachers to concentrate during their undergraduate years on a sound program of general education together with solid work in a content field. They have been encouraged to follow this with one year of graduate study leading to the degree of Master of Arts in Education. It seems advisable, nevertheless, to offer a limited number of courses in education at the undergraduate level. Furthermore, our work in education, even in the Graduate School, has been almost exclusively in educational psychology, and has not given sufficient attention to the history and principles of education. Additional courses in these subjects, open to undergraduates, are now being offered by Assistant Professor Victor B. Johnson, who will devote half his time to teaching and the other half to his work as Associate Dean for Men.

In the fourth place, some departments were enlarged purely because of the increased enrollment. Alson C. Patton, Jr. has been appointed Associate Professor of Mathematics; James S. Edwards, Assistant Professor of German; Donald MacQueen, Instructor in Romance Languages; Donald G. Abbott, Instructor in English; Katharine Reed, Assistant Director of Physical Education in the Women's College.

Finally, we welcome back to the faculty two former members of the staff: H. Earle Johnson, Assistant Professor of Music, and Rocheleau Z. Granger, Jr., Assistant Director of Physical Education.

The need for additional teachers comes at just the time when, because of the depletion of graduate schools during the war, there are comparatively few young scholars ready for college and university appointments. This means that each institution has attempted to recruit teachers from the faculties of other universities. In this connection, I record with pleasure that very few members of our faculty have resigned, but must record with regret the resignation of the following whose loss to Clark will be keenly felt:

Roger G. Barker, who resigned to become chairman of the Department of Psychology at the University of Kansas;

David M. Dougherty, who resigned to become chairman of the Department of Languages at the University of Oregon;

Robert H. Brown, who resigned to become Research Associate at Tulane University;

N. Orwin Rush, who became Executive Secretary of the Association of College and Reference Libraries;

Owen France, who resigned to devote his entire time to research.

Committee on University Needs

Soon after I assumed office in September, 1946, a variety of suggestions came to me from various sources as to the needs of the University. It was evident that there should be a careful and systematic study of our immediate and long-term needs and that a priority list should be established. A representative committee was created in December to perform this task. The committee consists of the following persons: (Faculty) Robert S. Illingworth, Homer P. Little, James A. Maxwell; (Trustees) Archibald M. Hillman, Robert H. Loomis, Carl E. Wahlstrom; (Alumni) Fred Brennan, Dr. Michael Fox, Harold Woodbury; (Citizens of Worcester) Mrs. Milton Higgins, George R. Stobbs, Harry G. Stoddard. It is evident that the work of this committee will not be completed before February, 1948, but it plans to present a report to the Board of Trustees, stating the physical needs of the University and also the needs for further endowment.

The Graduate School

At the opening of the year 1946–47, candidates for the Doctor of Philosophy degree were admitted to four departments: Chemistry, Geography, History, and Psychology, while candidates for the Master's degree were enrolled in Biology, Economics, and Education. In addition to departmental work at the graduate level, there is the program in International Affairs to which I shall refer later. Graduate student enrollment, according to subject matter, was as follows: Biology, 1; Chemistry, 13; Economics and Sociology, 5; Education, 28; Geography, 44; History and International Relations, 17; International Affairs, 1; Psychology, 22. This fall, candidates for the Doctor of Philosophy degree are admitted to the Department of Economics, and Master's degree candidates to the Department of Physics.

Dr. Wallace W. Atwood, during his twenty-six years as President of the University, served also as Director of the Graduate School of Geography. Following his retirement in 1946, Professor Samuel Van Valkenburg was named Director of the School. The plan of having all students in the School spend the first three weeks of the academic year in a field camp was revived in the fall of 1946. An outstanding feature of the past year has been the presence in the School of students from Central and South America, from the Far East, the Near East, and several European countries.

In addition to its teaching function, the School has continued to publish the Journal of *Economic Geography* under the editorship of Professor W. Elmer Ekblaw, and has engaged in a number of research projects. The work has been further enriched by the presence of a number of visiting lecturers, and a report of the year's work would not be complete without particular reference to Professor Charles Fawcett of the University of London, who was Visiting Professor during the second semester. His influence extended beyond the School of Geography to the entire university community.

Clark is one of the universities selected by the Veterans Administration to assist in the training of clinical psychologists at the graduate level. Plans for this work are now complete and a number of graduate students assigned by the Veterans Administration are starting their work here this fall.

One of the most perplexing problems in connection with graduate education has to do with the combined functions of teaching and research. Graduate schools were founded, in the first place, to train research workers, but in the course of the years more and more of the products of our graduate schools have entered the profession of college teaching. The graduate faculties have been severely criticized for their failure to recognize this patent fact, and for their failure to give students the kind of education which would make them effective college teachers. This problem has been on the minds of the members of our Graduate Board, and we feel that the small graduate school is in a peculiarly strategic position to take the leadership in reaching a solution. Individual departments and the Graduate School as a whole will continue to work on creating a functional program of studies for those who are preparing to teach.

In one respect there have been parallel developments in college curricula and in techniques of research. In both instances the recognition of the inadequacy of the departmentalization of knowledge has led to close coöperation on the part of teachers and scholars working in various fields. At the graduate level, a start in this direction was made some years ago at Clark with the organization of a Division of International Affairs. The program of studies in this

Division includes work in history and international relations, economics, and geography. There might well be an extension of this program and a further integration by calling upon the resources of the rapidly developing discipline of social psychology.

The College Curriculum

A joint Trustee-Alumni-Faculty Committee completed its Report on the Postwar Educational Program in January, 1945. The section of this report dealing with the college program was referred to the Academic Council for further study. Decisive action on the report was delayed for two reasons; in the first place, there were several senior members of the faculty on leave of absence in war-related activities, and, in the second place, there was the imminent change in the university administration. However, during the past year the Academic Council has given many hours to the study of the report.

As to the aims of liberal education, the report endorses the statement prepared by a committee of the Association of American Colleges. It concludes by saying that "a student's studies must therefore be so organized that their relations can become clear and their unity effective. For they are all one study—the study by man of man in the world in which he finds himself. A heterogeneous lot of studies, without order or sequence, produces distraction instead of comprehension. Education, to be liberal, must be cumulative and integrative. It must enable the student to achieve a sense of real accomplishment by relating the whole of reality to himself and himself to the world. Then, and only then, will he take the responsibility for his judgments as a conscious and educated man."

The first reaction of the Council was that the existing program in the College goes a long way in meeting these needs. There has never been a completely free elective system at Clark. Indeed, when the College was founded in 1902, there was a deliberate and reasoned reaction against the elective system. For a number of years all students have been required to take two years of work in each of the three broad areas of knowledge—the natural sciences, the social sciences, and the humanities. To be sure, the student had a reasonably wide selection of courses in these various groups which would fulfill the requirement. Allowing even this much freedom, I realize, may defeat the purposes of general or liberal education. It is surely true that some courses already offered in the curriculum are superior to others in serving the aims as stated by the committee. It is also true that it is difficult to have the same course serve as the first step in the sequence of specialized studies, and also as a terminal course for general education. While these criticisms may be valid in general, they do not apply with particular force to the Clark situation. They will apply with even less force if we place some limitations on the number of courses that may be selected for the general program. It must be recorded also that there is here a long-standing tradition of having either the chairman of the department or an equally mature teacher handle the basic or introductory courses. In most instances these men have been not only skilled teachers but men of vision, with the ability to see the relation of their own subject matter to other fields of knowledge.

Although this was the initial reaction of the Council to the proposals of the Committee on the Postwar College Program, I do not wish to suggest that deliberations ended in complacency. Quite the opposite was the case. The Council sponsored a series of informal faculty discussions, during which the basic issues of liberal education were explored. If there is to be a unified program of studies, and if these studies are to be informed by a central purpose, there must be deep understanding and shared purposes on the part of all members of the faculty. This is far more important than devising some new plan that looks well on paper but which does not have the enthusiastic support of those who are doing the day-to-day teaching. The general faculty discussions went a long way in achieving mutual understanding. It is both difficult and unnecessary to attempt a complete summary of the faculty discussions. Nevertheless, I should like to record the fact that there was a discernible direction in the thought of the group. For one thing, there was a healthy tendency to undercut the two most articulate theories of education in America today—the Great Tradition theory as shown in the writings of Chancellor Hutchins, and the experimentalism of John Dewey. Ultimately there was no attempt to defend one or the other of these, nor was there the attempt to reconcile these irreconcilable points of view. Rather there was agreement that we should start by understanding the needs and the interests of the students who come to Clark for an education. If we can discover what they want and what they need in order to live lives rich in enjoyment, solid in personal accomplishment, and effective in social participation, then we can work out a program of study and methods of teaching which are most likely to give students the maximum development during their stay in college. This must be done, furthermore, in the light of the established findings concerning the psychological nature of man and concerning the learning process. Again, there was wide agreement that the distinction between liberal and illiberal is not to be found in the inherent nature of a subject matter; the distinction is to be found rather in the way a subject is taught and in the way it is approached by the students. Finally, as regards the relation between general and special education, there was a disposition to endorse Professor Whitehead's statement that "there is not one course of study which merely gives general culture, and another which gives special knowledge. The subjects pursued for the sake of a general education are special subjects specially studied; and, on the other hand, one of the ways of encouraging general mental activity is to foster a special devotion. *You may not divide the seamless coat of learning.*"

Division of Business Administration

The Division of Business Administration is clearly serving the needs of a selected group of students. This Division is analogous neither to a department nor to a separate school. Professor Lucas of the Department of Economics has served as Director of the Division and the courses are taught by faculty members in the Departments of Economics, English, Geography, Psychology, History, and Mathematics. The methods and aims of the work in this Division are not narrowly vocational; on the contrary, they are similar to those employed in the liberal arts college. The Director of the Division reports that "we have been working toward the ideal of a general rather than a highly technical business curriculum. . . . For this reason the business curriculum emphasizes basic courses in economics, English, history and mathematics, together with general courses in business, such as finance, law, marketing, basic accounting and statistics."

University Administration

In addition to teaching, the members of the Clark faculty have been active in many of the administrative functions of the university, in community affairs, and in research.

Clark has a very small administrative staff. We assume that the essential activities of a university are teaching and research. Even the Dean and the President combine teaching with their administrative duties. This arrangement means, nevertheless, that a fairly heavy administrative responsibility must be carried by members of the faculty. I wish to express my deep appreciation of the energy and the skill with which they have worked on the many difficult problems occasioned by the rapid growth of the University. To mention all who have assisted in this matter would be to list the entire faculty, but I know that I speak for their colleagues as well as for myself in giving particular acknowledgment to Dean Little, to

Professor David Potter for his work as chairman of the Committee on Veterans, and to Miss Hughes of the Women's College.

Provision for assistance to Dean Little and to Miss Hughes has been made in the appointment of Victor B. Johnson as Associate Dean for Men and in the appointment of Katharine Reed who will relieve Miss Hughes of some of the work in physical education in the Women's College.

Also a new administrative office has been created in the appointment of Donald P. Cole as Director of Public Relations.

The Alumni

A report of the year would be incomplete without reference to the alumni and to the Alumni Association. I have profited greatly from conversations with many individual alumni and from meetings with alumni groups.

The collegiate department of Clark University is relatively young, and for most of the years of its existence the graduating classes have been small. In relation to the comparatively small alumni body, the contributions to the annual fund, amounting to $7500, confirm my impression with respect to the alumni loyalty. This loyalty takes the form, not of sentimental attachment, but of an abiding and deep respect. During the year I had the privilege of meeting with the alumni clubs in the following cities: Providence, Boston, Philadelphia, Washington, New York, Worcester, Springfield, Detroit, Chicago and Hartford. Professor Robert S. Illingworth, secretary of the Alumni Association, attended all of these meetings except the ones in Detroit and Chicago.

The Fine Arts Series

The fall of 1946 witnessed the twenty-fifth consecutive Fine Arts Series sponsored by Clark University under the direction of Professor

Loring H. Dodd. In appreciation of what this series has meant to the University and to the community, a number of Worcester citizens and the Board of Trustees of Clark University presented a Rembrandt etching to Professor Dodd on the occasion of the final number of the 1946 season. Following the number, a reception in honor of Professor and Mrs. Dodd was held at the President's home.

The Board of Trustees

At the meeting of the Board of Trustees in September, 1946, Mr. Alexander H. Bullock, for twenty years a member of the board and president since 1938, presented his resignation as president and as a member of the board. This was accepted with regret by board members. Succeeding Mr. Bullock as president is Mr. George H. Mirick, a board member since 1920, secretary of the board from 1920 to 1933, treasurer from 1933 to 1943, and vice-president from 1943 to 1946. Mr. Raymond T. Gifford was elected to replace Mr. Bullock as a permanent member of the board. Mr. Gifford served as alumni member from 1943 to 1947. Mr. Roland Erickson was elected by the Alumni Association to succeed Mr. Gifford. Legislative action during 1947 granted permission to increase the number of permanent members from nine to fourteen, although at this time none of the five additional places has been filled.

Commencements

The Baccalaureate Service was held in Atwood Hall at ten o'clock on May 25, and the fifty-seventh annual Commencement was held on the same day at four o'clock. The Reverend Dr. Thomas S. Roy was the Baccalaureate preacher and John Mason Brown delivered the Commencement address.

At the Commencement exercises, the following degrees were conferred: Bachelor of Business Administration, 10; Bachelor of Arts, 82; Master of Arts in Education, 9; Master of Arts, 17; Doctor of Philosophy, 3. Honorary degrees were conferred upon the following: Charles Bunsen Shaw, Doctor of Humane Letters; Edward Bates Peck, Doctor of Science; Thomas Sherrard Roy, Doctor of Humane Letters; Alexander Hamilton Bullock, Doctor of Laws; Robert Fiske Bradford, Doctor of Laws; John Mason Brown, Doctor of Letters.

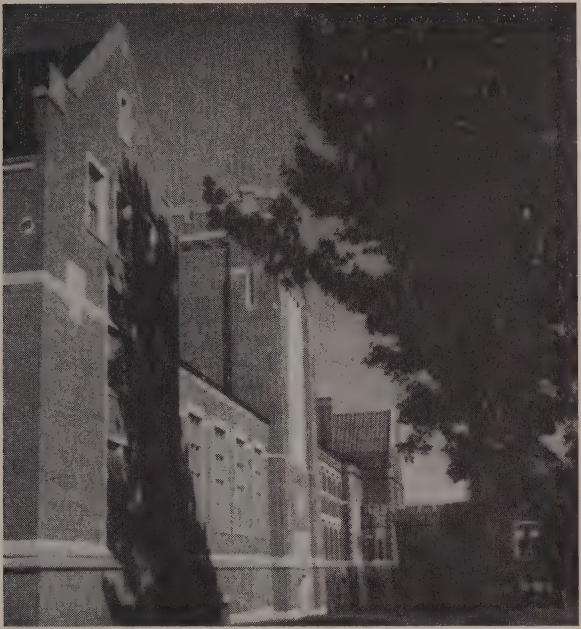
At the end of the summer session on August 22, another graduation was held, at which time the following degrees were granted: Bachelor of Education, 1; Bachelor of Business Administration, 7; Bachelor of Arts, 23; Master of Arts, 13; Doctor of Philosophy, 2. The President delivered the Commencement address.

Howard B. Jefferson

September, 1947

CLARK UNIVERSITY

WORCESTER, MASSACHUSETTS



Summer Term
1948

For students already in college who wish to proceed with utmost speed toward completion of their course.

For teachers or other adults who desire further undergraduate or graduate training.

SUMMER TERM CALENDAR

First Session

June 7—Registration
June 8—Classwork begins, 7:50 A M
July 5—Independence Day holiday
July 15 and 16—Examinations

Second Session

July 19—Registration
Aug. 26 and 27—Examinations
Aug. 27—Commencement, 5 P M

All are from the Staff of Clark University

Howard B. Jefferson, Ph.D. President of the University and Professor of Philosophy.

Homer P. Little, Ph.D. Dean of the College and Professor of Geology.

Karl O. E. Anderson, Ph.D. Assistant Professor of English.

Henry M. Bosshard, Ph.D. Professor of German.

Samuel J. Brandenburg, Ph.D. Professor of Economics and Sociology.

Guy H. Burnham, M.A. Instructor in Geography.

Robert F. Campbell, Ph.D., Assistant Professor of American History.

Rocheleau Z. Granger, M.A. Director of Recreational Activities.

Franklin P. Hall, Ph.D. Associate Professor of Economics and Sociology.

George E. Hargest, M.Ed., M.B.A., Assistant Professor of Economics and Business Administration.

Sherman S. Hayden, Ph.D. Assistant Professor of International Relations.

M. Hazel Hughes, B.Ed. Director of Student Activities of the Women's College.

Robert S. Illingworth, M.A., B.D. Professor of Dramatic Art.

Vernon Jones, Ph.D. Professor of Educational Psychology.

H. Donaldson Jordan, Ph.D. Professor of English History.

Frederick W. Killian, B.A., LL.B., Associate Professor of Economics and Sociology.

J. Fannin King, M.A. Assistant Professor of Romance Languages.

Dwight E. Lee, Ph.D. Professor of Modern European History.

Richard J. Lougee, Ph.D. Associate Professor of Physiography.

Arthur F. Lucas, Ph.D. Professor of Economics and Director of the Business Administration Program.

Donald MacGillavry, Jr., Ph.D. Associate Professor of Chemistry.

Donald MacQueen, M.A., Instructor in Romance Languages.

Richard B. Martin, M.A. Instructor in Chemistry.

Carey E. Melville, A.B. Professor of Mathematics.

Howard K. Moore, M.A. Instructor in English.

Raymond E. Murphy, Ph.D. Professor of Economic Geography.

Theodore Nicol, Ph.D. Visiting Professor of Romance Languages.

Rudolph F. Nunnemacher, Ph.D. Associate Professor of Biology.

Philip M. Palmer, Ph.D. Associate Professor of German.

Lester W. Parker, A.B. Visiting Instructor in English.

David Potter, Ph.D. Professor of Biology.

J. Richard Reid, Ph.D. Assistant Professor of Romance Languages.

Samuel Van Valkenburg, Ph.D. Professor of Geography and Director of the Graduate School of Geography.

Henry J. Warman, Ph.D. Assistant Professor of Geography.

John E. Bell, Ph.D. Assoc. Prof. Psych.

Victor B. Johnson, A.M. Ass't. Prof. Psyc

CREDITS, COSTS, AND LIVING ACCOMMODATIONS

Each subject carried for six weeks yields credit of one-half course (three semester hours). Two subjects for twelve weeks constitute a normal program and yield credit of two courses (twelve semester hours).

The tuition for the normal program for the entire summer term of twelve weeks is $152.00; for less than a full program the charge is $38.00 per subject per six-week session. In addition there is a matriculation fee of $5.00 for students entering for the first time to be paid at the time of registration. A laboratory fee of $5.00 per session is charged for each laboratory course. Students enrolled in laboratory courses in chemistry also make a special deposit for breakage. Tuition and laboratory fees are due at the Bursar's office not later than Saturday noon of the first week of each session.

Dormitory facilities, especially for women, are somewhat limited. Reservations should be made promptly. A deposit of $10.00 is required to reserve a room. This deposit, less a charge of $1.00 per session for light, is returnable if the room is left in good order. Rooms for women range in price from $3.50 to $5.00 per week, depending upon the location of the room; rooms for men cost $5.00 per week. Room rent is payable in advance at the opening of each session.

RECREATION

Mr. Granger, Athletic coach during the college year, will be in residence during the entire term as Recreational Director. The Saturday field trips, offered during the second session in connection with *Geography of New England*, will be open to all and furnish opportunity to become acquainted with many phases of the historical and geographical features of Massachusetts.

COURSES

If a course number is followed by *a*, it is offered in the first session only; if by *b*, in the second session only; absence of a letter indicates a course extending through both sessions. Credit is not granted for a course designated as indivisible unless it is carried through both sessions. Courses whose numbers begin with *2* are open only to juniors, seniors and graduate students; courses whose numbers begin with *3* are normally for graduate students only. Lecture classes meet for seventy-five minutes.

GRADUATE COURSES

Graduate students formally registered in the summer term may, with the approval of their major department, enroll in thesis courses under the direction of regular members of the staff other than those listed in the present bulletin.

Courses beginning with *2* or *3* are acceptable for credit toward a graduate degree when approved in advance by the student's major department.

Undergraduate and Graduate Courses

BIOLOGY

S.T. 11. General Biology. An introduction to the fundamental principles and problems of biology. The first six weeks will deal with zoological aspects, while the second six weeks will treat the botanical field (with Mr. Potter). Divisible with the approval of the instructor.
Daily, except Saturday, at 7:50; lab. M.Th. at 2:00.
Mr. Nunnemacher and Mr. Potter

S.T. 17a. Embryology. A comprehensive course dealing with vertebrate development.
Daily, except Saturday, at 9:15; lab. T.Th.F. at 2:00.
Mr. Nunnemacher

S.T.16a Histology Mr. Nunnemacher
Daily, except Saturday; 3 lab. periods

S.T. 11. Principles of Sociology. *First Session—Social Organization.* The study of social structure and of social interaction. Biological, geographical, and cultural basis of man and his social life. Tribe, clan, community, society, folkways, mores, class, caste, and race. *Second Session—Social Disorganization.* A study of the effects of social and cultural change from primary to secondary group life. The effects of mobility, urbanization, and secularization. Problems of the person in society; dependency, sickness, population, divorce, politics, religion, minority groups. Divisible.

Daily, except Saturday, at 10:40. Mr. Killian

S.T. 21a. The Family and Society. A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic, and cultural forces; secondary groups and the family; rural and urban family. Prerequisite: Sociology 11 or approval of the instructor.

Daily, except Saturday, at 12:05. Mr. Killian

S.T. 22b. Race and Nationality. The meaning of *race;* the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of earlier Americans. American minority groups and problems—the Negro, the Jew, and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population. Prerequisite: Elementary Sociology or approval of the instructor.

Daily, except Saturday, at 12:05. Mr. Killian

SPANISH

S.T. 12. Intermediate. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America. Prerequisite: Spanish 11 or the equivalent in high school Spanish, depending on the result of a placement test. Indivisible.

Daily, except Saturday, at 9:15. Mr. Re~~e~~id and Mr. MacQueen

S.T. 14. Readings in Spanish and Spanish-American Literature. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and an appreciation of some outstanding examples of Spanish and Spanish-American literature. Prerequisite: Spanish 12 or the equivalent to be determined by a placement test.

Daily, except Saturday, at 12:05. Mr. Re~~e~~id and Mr. MacQueen

For further information address

The Dean of the College

CLARK UNIVERSITY BULLETIN
Number 183 January 1948
This Bulletin is published in January, March, September, October

Entered as second-class matter December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized January 24, 1921.

S.T. 22. Labor Problems. A study of the development of workers' and employers' organizations, collective bargaining, industrial disputes and methods of prevention and settlement. The second semester is devoted largely to the study of legislative control of industrial relations and the Social Security program. Divisible with consent of the instructor.

Daily, except Saturday, at 7:50. [redacted] Mr. Hall

S.T. 26. Government and Industry. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads. Indivisible.

Daily, except Saturday, at 10:40. Mr. Lucas

(See also Business Administration and Sociology.)

EDUCATION

S.T. 201b. Educational Psychology. A study of psychological principles as they apply to learning and teaching in school. Provision will be made during part of the term for students with teaching experience to work intensively upon one or more of their school problems.

Daily, except Saturday, at 9:15. Mr. Jones

S.T. 205b. The Teaching of English in the High School. A study of the general philosophy and specific objectives of high school English teaching, an analysis of the English curriculum and its place in general education, and a survey of current trends in methods of teaching literature and oral and written composition. Open to seniors and teachers.

Daily, except Saturday, at 10:40. Mr. Parker

S.T. 210b. Education for Citizenship. A psychological approach to methods and procedures in education for citizenship.

Daily, except Saturday, at 12:05. Mr. Jones

ENGLISH

S.T. 12. Public Speaking. A course in the composition and delivery of the most commonly used types of speeches, parliamentary procedure, discussion groups, and vocabulary drill. This course is for those not majoring in Business Administration. Indivisible except that admissions for the second session only will be considered.

Daily, except Saturday, at 9:15. Mr. Illingworth

S.T. 13b. Shakespeare. A study of the development of Shakespeare as a dramatist. Twelve plays are studied, with the main emphasis on *Hamlet*, *Othello*, *Lear*, and *Macbeth*.

Daily, except Saturday, at 10:40. Mr. Anderson

S.T. 16a. Advanced Composition. A critical study of the literary techniques of narration, description, argumentation, and exposition. Free writing under direction. May be taken only with the consent of the instructor.

Daily, except Saturday, at 12:05. Mr. Moore

S.T. 111b. A Survey of American Literature. American literature from Puritan times to 1890, with the main emphasis on the nineteenth century.

Daily, except Saturday, at 12:05. Mr. Anderson

S.T. 117a. Romantic Poetry. Wordsworth, Coleridge, Byron, Shelley, and Keats, with a consideration of the intellectual background of their time. Lectures and assigned readings.

Daily, except Saturday, at 10:40. Mr. Moore

divisible.
Daily, except Saturday, at 9:15. Mr. King and Mr. Nicol

S.T.F. 14. Readings in French Literature. The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal. Prerequisite: French 12 or the equivalent, to be determined by a placement test.
Daily, except Saturday, at 10:40. Mr. King and Mr. Nicol

GEOGRAPHY

S.T. 16. Economic Geography. A study of the distribution of people and of their economic activities organized on a regional basis, beginning with North America and continuing through the other continents. Divisible.
Daily, except Saturday, at 10:40. Mr. Warman and Mr. Murphy

S.T. 28b ~~13b~~ Geography of New England. With this summer's offering of this course the Saturday field trips, so successful in prewar days, will be revived. Prerequisites: Elements of Geography and Elementary Geology, or equivalent.
Daily, except Saturday, at 10:40. Mr. ~~Lougee~~ Ekblaw

S.T. 183a. Geography of South America. Analysis of the major geographic regions of South America; special geographic problems of South American governments and peoples. Prerequisite: Elementary Geography (Geography 10).
Daily, except Saturday, at 9:15. Mr. Warman

S.T. 191. Cartography. A discussion of various graphic methods and their application to geographic data. Since emphasis will be placed upon the mastery of cartographic tools and instruments, this course should prove particularly helpful to those planning to enter government service or doing illustrative work. Divisible.
Daily, except Saturday, at 1:30. Mr. Burnham

S.T. 201b. Political Geography. Study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.
Daily, except Saturday, at 1:30. Mr. Van Valkenburg

~~S.T. 212b. Regional Physiography of North America. A study of selected areas within the major physiographic regions.~~
~~*Daily, except Saturday, at [illegible].* Mr. Lougee~~

S.T. 287b. Geography of the Pacific Area. A regional treatment of the human geography of the islands of the Pacific.
Daily, except Saturday, at 9:15. Mr. Murphy

GERMAN

S.T. 12. Intermediate German (Second Year). Reading, translation, review of grammar essentials, exercises in composition and pronunciation. Prerequisite: German 11 or two years of high school German.
Daily, except Saturday, at 9:15. ~~Mr. Bosshard and~~ Mr. Palmer
and Mr. Bosshard

S.T. 13. Reading in German Literature (Third Year). Introduction of the student to a few of the outstanding works of German literature. Additional readings in the social sciences. Exercises in composition. Prerequisite: German 12, 123 or its equivalent.
Daily, except Saturday, at 12:05. ~~Mr. Bosshard and~~ Mr. Palmer
and Mr. Bosshard

Daily, except Saturday, at 10:40. MR. HAYDEN

S.T. 15a. HISTORY OF ENGLAND SINCE 1689. Dealing with British history since the seventeenth century, this course forms a background for the study of American history and English literature.
Daily, except Saturday, at ~~[illegible]~~. 7:50 MR. JORDAN

S.T. 22b. THE MODERN FAR EAST. The course deals primarily with international relations in the region since 1895.
Daily, except Saturday, at 12:05. MR. HAYDEN

S.T. 233b. EUROPEAN INTERNATIONAL RELATIONS SINCE 1930. Although the emphasis is placed upon international relations, some attention will also be paid to internal developments in the more important states in order to make clear the causes and course of the war, 1939-45, and its immediate aftermath.
Daily, except Saturday, at ~~7:50~~. 10:40 MR. LEE

S.T. 234a. AMERICAN COLONIAL HISTORY TO 1776. This will include the European background of American history with particular reference to England, and the political, economic, and social development of the colonies.
Daily, except Saturday, at 10:40. MR. CAMPBELL

S.T. 238. THE EASTERN MEDITERRANEAN AND THE ARAB WORLD. The Near and Middle East as an area of increasing importance in the international relations of the great powers in the nineteenth and twentieth centuries. An attempt will be made to provide an understanding of the background of the present critical situation. The second session may be entered with the consent of the instructor.
Daily, except Saturday, at 9:15. MR. JORDAN AND MR. LEE

S.T. 242a. THE UNITED STATES IN THE TWENTIETH CENTURY. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Daily, except Saturday, at 12:05. MR. CAMPBELL

MATHEMATICS

S.T. 12. SECOND YEAR COURSE. Analytical geometry, introduction to differential and integral calculus. Required of majors in chemistry, physics, and mathematics.
Daily, except Saturday, at 7:50. MR. MELVILLE

S.T. 13. CALCULUS AND DIFFERENTIAL EQUATIONS. Advisable for majors in chemistry and physics. Divisible.
Daily, except Saturday, at 9:15. MR. MELVILLE

PSYCHOLOGY

(See Education for additional second session courses)

S.T. 11. GENERAL PSYCHOLOGY. An introduction to the principles of human behavior. Lectures and class discussion.
Daily, except Saturday, at 10:40. INSTRUCTOR TO BE ANNOUNCED

207a Psych. of Personality Mr. Bell

S.T. ~~201~~ ~~SOCIAL PSYCHOLOGY.~~ A survey of the main principles of social psychology including a study of selected experiments in culture, personality, and socialization. Divisible.
Daily, except Saturday, at 9:15. INSTRUCTOR TO BE ANNOUNCED
Mr. Bell

Daily, except Saturday, at 9:15. Mr. Potter

BUSINESS ADMINISTRATION

S.T. 17. Public Speaking. The principles of public speaking in the more practical and familiar types of address that prevail today. In addition, the course will include Parliamentary procedure, discussion groups, problems in human relations, and vocabulary drill. ~~Indivisible.~~
Daily, except Saturday, at 10:40. Mr. Illingworth

S.T. 18. Business Organization and Finance. A unified year course in the financial structure of modern industry. Emphasis is placed on the nature of the business corporation, its financial practices, and the problems of internal financial control. Indivisible.
Daily, except Saturday, at 9:15. Mr. Lucas

S.T. 127. Intermediate Accounting. A study of the difficulties encountered in actual accounting practice, and the theoretical considerations that govern in distinguishing sound from unsound policies in the determination of valuations, reserves, classifications of profit-and-loss items, and allocation as between accounting periods, etc. Indivisible.
Daily, except Saturday, at 7:50. Mr. Hargest

S.T. 181a. Industrial Management. A study of the techniques of executive control and the measures of managerial efficiency pertaining particularly to production control, standardization of operations, purchasing, inventories, selling, and budgeting.
Daily, except Saturday, at 9:15. Mr. Hargest

S.T. 182b. Office Management. A survey of the principles of office procedure and management with special emphasis upon office organization and planning, departmental organization, standardization of equipment and methods, employee selection and training, office forms, office costs and budgets, and correspondence.
Daily, except Saturday, at 9:15. Mr. Hargest

(See also Economics and History 12b, American Government.)

CHEMISTRY

S.T. 12a. Qualitative Analysis. Chiefly laboratory work, fifteen hours per week. Occasional lectures and recitations. Prerequisite, Elementary Chemistry (Chemistry 11). Martin
Daily, except Saturday, at 2:00. Mr. ~~[illegible]~~

S.T. 14b. Quantitative Analysis. Chiefly laboratory work, with occasional lectures, recitations, and problems. Twelve hours of laboratory work, and one lecture per week. Prerequisite, course 12a. Martin
Daily, except Saturday, at 2:00. Mr. ~~[illegible]~~

S.T. 15. Elementary Organic Chemistry. Lectures and laboratory on the fundamental principles of organic chemistry. Prerequisite, a grade of C— or better in Elementary Chemistry, or its equivalent. Indivisible.
Daily, except Saturday, at 10:40; lab. M.W., at 2:00. Mr. Martin

ECONOMICS

S.T. 11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life. Indivisible.
Daily, except Saturday, at 10:40. ~~Mr. [illegible] and~~ Mr. Hall

Clark University Bulletin

NUMBER 184 MARCH, 1948

CATALOGUE NUMBER

WORCESTER, MASSACHUSETTS

4-13-4

Clark University Bulletin

CATALOGUE NUMBER

The Catalogue is a record for the current academic year 1947-48. Such announcements for the year 1948-49 as can be made at the time of publication are included.

The Bulletin is published in January, March, September and October

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Entered as second-class matter, December 29, 1920, at the Post Office at Worcester, Mass., under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in Section 1103, Act of October 3, 1917, authorized January 24, 1921.

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Calendar

The academic year begins on the Monday before the fourth Thursday in September and ends thirty-six weeks later, near the end of May. It includes two approximately equal semesters and two vacation periods;—two weeks including Christmas Day and New Year's Day, and a week near the first of April.

The first semester ends on the Saturday before the twentieth Monday and the second semester begins on the twentieth Monday of the academic year.

The Summer term begins about one week after the end of the regular academic year and continues for twelve weeks. The summer term is divided into two sessions of six weeks each.

1947

Sept.	22	Monday	Beginning of academic year.
Oct.	12	Sunday	Columbus Day.
Oct.	13	Monday	A holiday.
Oct.	31	Friday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1948.
Nov.	11	Tuesday	Armistice Day. Not a holiday.
Nov.	15	Saturday	Mid-semester reports.
Nov.	26	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Dec.	1	Monday	End of Thanksgiving recess at 8 A.M.
Dec.	20	Saturday	Beginning of Christmas recess at 1 P.M.

1948

Jan.	5	Monday	End of Christmas recess at 8 A.M.
Jan.	12	Monday	Beginning of semester examination period.
Jan.	24	Saturday	End of first semester.
Jan.	26	Monday	Beginning of second semester.
Jan.	31	Saturday	Last day for receiving applications for admission to candidacy for the Degree of Master of Arts in June 1948.
Feb.	5	Thursday	Last day for payment of term bills.
Feb.	22	Sunday	Washington's Birthday.
Feb.	23	Monday	A holiday.
Mar.	13	Saturday	Mid-semester reports.
Apr.	3	Saturday	Beginning of spring recess at 1 P.M.
Apr.	12	Monday	End of spring recess at 8 A.M.
Apr.	19	Monday	Patriot's Day. Not a holiday.
Apr.	26	Monday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May	3	Monday	M.A. Theses due at Recorder's Office at 9 A.M.
May	10	Monday	Beginning of semester examination period.
May	22	Saturday	End of academic year.
May	23	Sunday	Commencement Day.
June	7	Monday	Beginning of first session of summer term. Registration day.
July	4	Sunday	Fourth of July.
July	5	Monday	A holiday.
July	16	Friday	End of first session of summer term.
July	19	Monday	Beginning of second session of summer term. Registration day.
Aug.	27	Friday	End of summer term. Conferring of degrees.

Sept. 20	Monday	Beginning of academic year 1948-49.
Sept. 30	Thursday	Last day for payment of term bills.
Oct. 12	Tuesday	Columbus Day. A holiday.
Nov. 1	Monday	Last day for receiving applications for admission to candidacy for the Degree of Doctor of Philosophy in June 1949.
Nov. 11	Thursday	Armistice Day. Not a holiday.
Nov. 13	Saturday	Mid-semester reports.
Nov. 24	Wednesday	Beginning of Thanksgiving recess at 5 P.M.
Nov. 29	Monday	End of Thanksgiving recess at 8 A.M.
Dec. 18	Saturday	Beginning of Christmas recess at 1 P.M.
1949		
Jan. 3	Monday	End of Christmas recess at 8 A.M.
Jan. 10	Monday	Registration for second semester. Classes omitted.
Jan. 17	Monday	Beginning of semester examination period.
Jan. 29	Saturday	End of first semester.
Jan. 31	Monday	Beginning of second semester.
Feb. 7	Monday	Last day for receiving applications for admission to candidacy for the Degree of Master of Arts in June 1949.
Feb. 10	Thursday	Last day for payment of term bills.
Feb. 22	Tuesday	Washington's Birthday. A holiday.
Mar. 19	Saturday	Mid-semester reports.
Apr. 2	Saturday	Beginning of spring recess at 1 P.M.
Apr. 11	Monday	End of spring recess at 8 A.M.
Apr. 19	Tuesday	Patriot's Day. Not a holiday.
May 2	Monday	Ph.D. dissertations due at Recorder's Office at 9 A.M.
May 9	Monday	M.A. Theses due at Recorder's Office at 9 A.M.
May 16	Monday	Beginning of semester examination period.
May 28	Saturday	End of academic year.
May 29	Sunday	Commencement Day.
Sept. 19	Monday	Beginning of academic year 1949-50.

BOARD OF TRUSTEES

Final authority in all matters pertaining to the University is lodged in the Board of Trustees by charter granted by the General Court of the Commonwealth of Massachusetts.

George H. Mirick (1920), President	Worcester, Mass.
Leon E. Felton (1930), Secretary	Worcester, Mass.
Francis H. Dewey, Jr. (1934)	Worcester, Mass.
Robert H. Loomis (1936)	Boston, Mass.
Frank L. Adams (1938)	Worcester, Mass.
Howard M. Booth (1939)	Worcester, Mass.
Samuel H. Dolbear (1940)	New York, N. Y.
Carl E. Wahlstrom (1942), Vice-President	Worcester, Mass.
Raymond T. Gifford (1947), Treasurer	Worcester, Mass.

ELECTED TO REPRESENT THE ALUMNI

Thomas L. Patterson (1944) for four years
Clarence P. Shedd (1945) for four years
Archibald M. Hillman (1946) for four years
Roland A. Erickson (1947) for four years

ADMINISTRATION

President of the University	Howard B. Jefferson
Dean of the College	Homer P. Little
Treasurer	Raymond T. Gifford 18 Chestnut St., Worcester, Mass.
Librarian	Albert C. Gerould
Associate Dean for Men	Victor B. Johnson
Director of Student Activities in the Women's College	M. Hazel Hughes
Recorder	Lydia P. Colby
Assistant Treasurer	Allan B. Miller
Bursar	Mary A. Hubbard
Director of Public Relations	Donald P. Cole
Medical Director for Men	Michael B. Fox, M.D.
Medical Director for Women	Constance Kaliris, M.D.

Faculty

(Listed in order of academic seniority within each rank)

HOWARD BONAR JEFFERSON, PH.D. 160 Woodland St.
President and Professor of Philosophy since 1946.
A.B., Denison University, 1923; Ph.D., Yale University, 1929.

HOMER PAYSON LITTLE, PH.D. 156 Woodland St.
Dean of the College and Professor of Geology since 1922.
A.B., Williams College, 1906; Ph.D., Johns Hopkins University, 1910.

WALLACE WALTER ATWOOD, PH.D., SC.D. 21 Otsego Rd.
President, Professor of Physical and Regional Geography, and Director of the Graduate School of Geography, 1920-1946. President Emeritus.

BENJAMIN SHORES MERIGOLD, PH.D., SC.D. 17 Charlotte St.
Professor of Chemistry, 1908-1946. Professor Emeritus.

GEORGE HUBBARD BLAKESLEE, PH.D., L.H.D.
Professor of History and International Relations, 1909-1944. Professor Emeritus.

PHILIP HUDSON CHURCHMAN, PH.D. 20 Institute Rd.
Professor of Romance Languages, 1911-1944. Professor Emeritus.

HAVEN DARLING BRACKETT, PH.D. 114 Woodland St.
Professor of Greek and Latin, 1912-1946. Professor Emeritus.

LEROY ALLSTON AMES, A.M.
Professor of English Literature, 1915-1944. Professor Emeritus.

WILLIAM HOMER WARREN, PH.D.
Professor of Organic Chemistry, 1925-1937. Professor Emeritus.

DOUGLAS CLAY RIDGLEY, PH.D.
Professor of Geography in Education, 1927-1937. Professor Emeritus.

LORING HOLMES DODD, PH.D. 88 Sagamore Rd.
Professor of Rhetoric. Curator of Art.
A.B., Dartmouth College, 1900; A.M., Columbia University, 1901; Ph.D., Yale University, 1907. Instructor, 1910-13; Assistant Professor, 1913-16; Associate Professor, 1916-20; Professor since 1920.

SAMUEL J. BRANDENBURG, PH.D. 173 Woodland St.
Professor of Economics and Sociology since 1923.
A.B., Miami University, 1904; Ph.M., University of Chicago, 1909; Ph.D., University of Wisconsin, 1922.

WALTER ELMER EKBLAW, PH.D. 11 Wheeler Rd., N. Grafton, Mass.
Professor of Geography.
A.B., University of Illinois, 1910; A.M., 1912; Ph.D., Clark University, 1926. Associate Professor, 1926-28; Professor since 1928.

JESSE LUNT BULLOCK, PH.D. 35 Downing St.
Professor of Chemistry and Director of the Chemical Laboratories.
A.B., Harvard University, 1914; A.M., 1928; Ph.D., 1932. Assistant Professor, 1926-32; Associate Professor, 1932-37; Professor since 1937 (February).

JAMES ACKLEY MAXWELL, PH.D. 15 Sunnyhill Dr.
Professor of Economics.
A.B., Dalhousie University, 1921; A.M., Harvard University, 1923; Ph.D., 1927. Instructor, 1924-26; Assistant Professor, 1926-28; Associate Professor, 1928-37; Professor since 1937 (February).

SAMUEL VAN VALKENBURG, PH.D. 11 South Flagg St.
Professor of Geography. Director of the Graduate School of Geography.
Ph.D., University of Zürich, 1918. Special Lecturer in Geography, second semester, 1926-27; Assistant Professor, 1927-29; Associate Professor, 1932-37; Professor since 1937 (February).

ROBERT STANLEY ILLINGWORTH, A.M., ED.M. 209 Lovell St.
Professor of Dramatic Art. Alumni Secretary.
A.B., Clark University, 1917; A.M., Lafayette College, 1926; Ed.M., Harvard University, 1933; B.D., Andover Theological School, 1945. Associate Professor of English, 1931-38; Professor since 1938 (February). Director of the Summer School, 1935-41.

VERNON JONES, PH.D. 267 Salisbury St.
Professor of Educational Psychology.
A.B., and A.M., University of Virginia, 1920; A.M., Columbia University, 1924; Ph.D., 1926. Associate Professor, 1926-38; Professor since 1938 (February).

HENRY DONALDSON JORDAN, PH.D. 171 Woodland St.
Professor of English History.
A.B., Harvard University, 1918; A.M., 1922; Ph.D., 1925; Associate Professor, 1931-38; Professor since 1938 (February).

DWIGHT ERWIN LEE, PH.D. 3 Woodman Rd.

Professor of Modern European History.

A.B., University of Rochester, 1921; A.M., 1922; Ph.D., Harvard University, 1928 (February). Assistant Professor, 1927-30; Associate Professor, 1930-38; Professor since 1938 (February).

ARTHUR FLETCHER LUCAS, PH.D. 54 Morningside Rd.

Professor of Economics. Director of the Division of Business Administration.

A.B., Bates College, 1920; A.M., Princeton University, 1923; Ph.D., 1925. Assistant Professor, 1926-29; Associate Professor, 1929-38; Professor since 1938 (February).

DAVID POTTER, PH.D. 113 South St., Auburn, Mass.

Professor of Biology.

B.Sc., Massachusetts Agricultural College, 1916; M.Sc., 1923; Ph.D., Harvard University, 1932. Instructor, 1924-27; Assistant Professor, 1927-33; Associate Professsor, 1933-38; Professor since 1938 (February).

CAREY EYSTER MELVILLE, A.B. 16 Isabella St.

Professor of Mathematics.

A.B., Northwestern University, 1901. Assistant in Mathematics, 1906-09; Instructor, 1909-11; Assistant Professor, 1911-18; Associate Professor, 1918-43; Professor since 1943. Registrar, 1914-32.

PERCY MARTIN ROOPE, PH.D. 2 Lovell Drive

Professor of Physics.

A.B., Clark University, 1920; A.M., 1924; Ph.D., 1927. Instructor, 1921-27; Assistant Professor, 1927-31; Associate Professor, 1931-43; Professor since 1943.

HENRY MORANT BOSSHARD, PH.D. 10 Shaffner St.

Professor of German.

Ph.D., University of Zürich, 1919; M.Ed., Harvard University, 1921. Assistant Professor, 1927-32; Associate Professor, 1932-43; Professor since 1943.

RAYMOND EDWARD MURPHY, PH.D.
153 Boylston St., Shrewsbury, Mass.

Professor of Economic Geography since 1946.

B.S., Missouri School of Mines and Metallurgy, 1923; M.S., University of Wisconsin, 1926; Ph.D., University of Wisconsin, 1930.

HEINZ WERNER, PH.D. 6 Harvard St.

Professor of Psychology since 1947.

Ph.D., University of Vienna, 1915.

THEODORE NICOL, PH.D. 10 Circuit Ave.
Visiting Professor of Romance Languages since 1946.
A.B., Clark University, 1926; A.M., Harvard University, 1928; Ph.D., 1933.

JOSEPH WEINREB, M.D. 21 Catherine St.
Professor (Affiliate) of Psychology since 1947.
B.A., Vanderbilt University, 1931; M.D., Vanderbilt University, 1935.

RUDOLF FINK NUNNEMACHER, PH.D. 1 Manchaug Rd., Sutton, Mass.
Associate Professor of Biology.
B.S., Kenyon College, 1934; M.A., Harvard University, 1935; Ph.D., 1938. Assistant Professor, 1939-44; Associate Professor since 1944.

JOHN ELDERKIN BELL, ED.D. 117 Forest St.
Associate Professor of Psychology since 1944.
B.A., Univerity of British Columbia, 1933; M.A., Columbia University, 1941; Ed.D., 1942.

PAUL FRANCIS MARBLE, A.M. Worcester Rd., Princeton, Mass.
Associate Professor of English.
Ph.B., Brown University, 1930; A.M., 1933. Instructor in English 1939-44; Assistant Professor 1944-46; Associate Professor since 1946 (January).

ARTHUR EARL MARTELL, PH.D. 17 Hapgood Way, Shrewsbury
Associate Professor of Chemistry.
B.S., Worcester Polytechnic Institute, 1938; Ph.D., New York University, 1941; Assistant Professor, 1942-46; Associate Professor since 1946 (January).

FRANKLIN PORTER HALL, PH.D. 20 Indian Lake Pkwy.
Associate Professor of Economics and Sociology since 1946.
B.A., University of Oregon, 1929; M.A., University of Wisconsin, 1931; Ph.D., 1945.

DONALD MACGILLAVRY, JR., PH.D. 1133 Pleasant St.
Associate Professor of Chemistry since 1946.
Cand., University of Amsterdam, 1923; Docts., University of Amsterdam, 1928; Ph.D., Columbia University, 1933.

PHILIP MOTLEY PALMER, PH.D. 46 Tory Fort Lane
Associate Professor of German since 1946.
A.B., Bowdoin College, 1926; A.M. Harvard University, 1927; Ph.D., 1930.

ELIOT HERMAN RODNICK, PH.D. Worcester State Hospital
Associate Professor (Affiliate) of Abnormal Psychology.
B.A., Yale University, 1933; Ph.D., 1936. Visiting Lecturer, 1942-43; Assistant Professor (Affiliate) 1943-46; Associate Professor (Affiliate) since 1946.

HERBERT P. BARNETT 19B Elm St.
Associate Professor (Affiliate) of Fine Arts since 1946.
Head of Departmentf of Drawing, Painting and Sculpture, School of the Worcester Art Museum.

RICHARD JEWETT LOUGEE, PH.D.
Brigham Hill Rd., N. Grafton, Mass.
Associate Professor of Physiography since 1947 (January).
B.S., Dartmouth College, 1927; A.M., University of Michigan, 1929; Ph.D., Columbia University, 1938.

FREDERICK W. KILLIAN, A.B. 15 Worcester Ave., Grafton, Mass.
Associate Professor of Sociology since 1947.
A.B., New York University, 1934; LL.B., New York University.

ALSON C. PATTON, JR., M.A. 89 Coolidge Rd.
Associate Professor of Mathematics since 1947.
B.A., University of Tennessee, 1920; M.A., Yale University, 1922.

SIGMUND KOCH, PH.D. 240 Quinsigamond Ave., Shrewsbury, Mass.
Visiting Associate Professor of Psychology, 1947-48.
B.A., New York University, 1938; M.A., University of Iowa, 1939; Ph.D., Duke University, 1942.

EDITH MEYER, PH.D. Jamaica Plain, Mass.
Associate Professor (Affiliate) in Psychology, 1947-48.
Ph.D., University of Leipzig, 1933; Diplômes des Etudes Pédagogiques, University of Geneva, 1935.

FREDERICK WYATT, PH.D. Cambridge, Mass.
Associate Professor (Affiliate) in Psychology, 1947-48.
Ph.D., University of Vienna, 1936.

GEORGE EDWARD HARGEST, M.ED. 150 Woodland St.
Assistant Professor of Economics and Business Administration since 1942.
B.S., Temple University, 1933; M.Ed., 1937.

ROY CHALMERS GUNTER, PH.D. Dodge, Mass.
Assistant Professor of Physics.
B.S., Bowdoin College, 1938; A.M., Boston University, 1939; Ph.D., 1942. Instructor in Physics and Mathematics, 1941 (February) - 1943; Assistant Professor of Physics since 1943.

HENRY JOHN WARMAN, PH.D. 193 Lovell St.
Assistant Professor of Geography.
B.S., in Ed., Bloomsburg State Teachers' College, 1932; Ed.M., Temple University, 1938; Ph.D., Clark University, 1945. Assistant Professor, 1943-44 and since 1945.

J. RICHARD REID, PH.D. Stafford St., Rochdale, Mass.
Assistant Professor of Romance Languages since 1944.
A.B., Swarthmore College, 1935; A.M., Harvard University, 1936; Ph.D., 1943.

KARL OSCAR EMANUEL ANDERSON, PH.D. 44 Richmond Ave.
Assistant Professor of English since 1945.
A.B., Harvard, 1927; A.M., 1928; Ph.D., 1942.

BEVERLY HOSBROOK BOWMAN, M.S. 508 Grove St.
Assistant Professor of Economics and Business Administration.
B.S., Northeastern State College (Oklahoma), 1937; M.S., Oklahoma Agricultural and Mechanical College, 1939.

ROBERT FRANCIS CAMPBELL, PH.D. 130 Woodland St.
Assistant Professor of American History since 1946.
A.B., Yale University, 1939; A.M., Columbia University, 1940; Ph.D., 1947.

THOMAS QUINLEVAN GILSON, A.M.
82 Pleasant St., Leicester, Mass.
Assistant Professor of Psychology since 1946; Assistant Professor of Business Administration since 1947.
A.B., Princeton University, 1938; A.M., Columbia University, 1942.

SHERMAN STRONG HAYDEN, PH.D. 68 Moore Ave.
Assistant Professor of International Relations since 1946.
A.B., Harvard University, 1930; LL.B., 1933; M.A., Columbia University, 1936; Ph.D., 1942.

J. FANNIN KING, A.M. Estabrook Hall
Assistant Professor of Romance Languages since 1946.
A.B., Pomona College, 1936; A.M., Harvard University, 1937.

CLAUDE W. BARLOW, PH.D. 50 Woodland St.
Assistant Professor of Classics since 1947.
A.B., Amherst College, 1928; M.A., Indiana University, 1930; Ph.D., Yale University, 1935.

MORRIS H. COHEN, A.B. 8 Norwood St.
Assistant Professor of Government since 1947.
A.B., University of Chicago, 1939.

JAMES S. EDWARDS, A.B. 768 Main St.
Assistant Professor of German since 1947.
A.B., Brown University, 1936.

FRED H. HOWARD, M.D. 59 Beechmont St.
Assistant Professor of Biology since 1947.
A.B., Clark University, 1939; M.A., Harvard University, 1941; M.D., Boston University, 1944.

VICTOR B. JOHNSON, A.M. Dodge, Mass.
Assistant Professor of Education since 1947; Associate Dean of Men.
A.B., Upsala College, 1933; A.M., Teachers College, Columbia University, 1941.

H. EARLE JOHNSON, MUS.M. 24 William St.
Assistant Professor of Music.
Mus.B., Boston University, 1933; Mus.B., Yale University, 1934; Mus.M., Yale University, 1935. Instructor, 1936-42; Assistant Professor since 1947.

DONALD HENRY LETENDRE, A.M. IN ED.
29 Church St., Spencer, Mass.
Instructor in English since 1946 (January).
A.B., Clark University, 1938; A.M. in Ed., 1939.

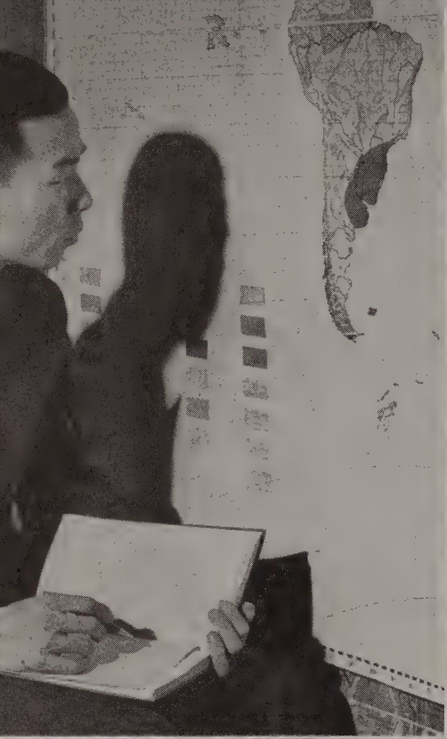
GUY HARVEY BURNHAM, A.M. 19 Woodman Rd.
Instructor in Geography since 1946. Cartographer, Graduate School of Geography since 1922.
A.B., Clark University, 1916.

RICHARD BLAZO MARTIN, A.M. 7 Forestdale Rd.
Instructor in Chemistry since 1946.
A.B., Clark University, 1939; A.M., 1940.

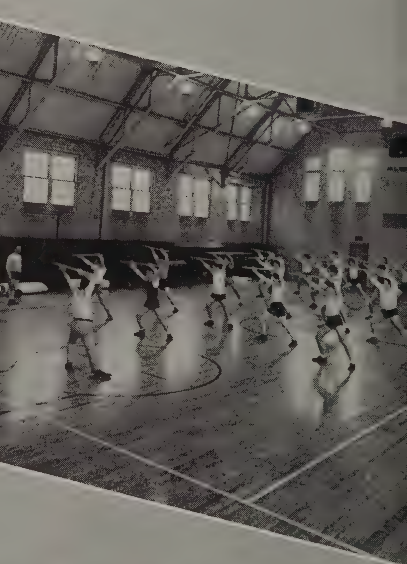
HOWARD KIMBALL MOORE, A.M. 1A Melville St.
Instructor in English since 1946.
A.B., Boston University, 1939; A.M., 1940.

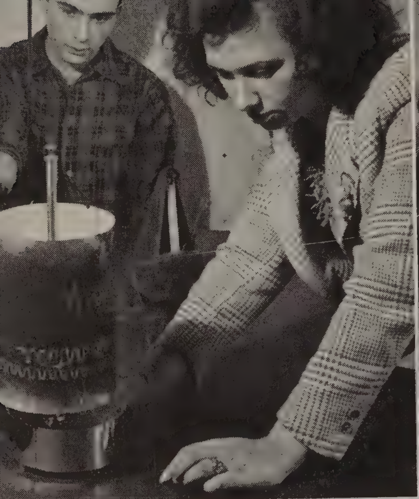
CHESTER CUSHING STONE, B.S. 18 High St., Spencer, Mass.
Instructor in Mathematics since 1946.
B.S., Massachusetts State College, 1942.

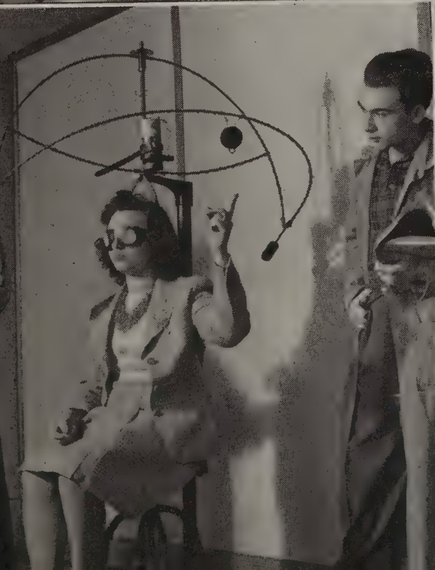
Estabrook Hall



ATHLETIC SCHEDULES







LORETTA ANNE WAWRZYNIAK, A.M.
20 N. Main St., Webster, Mass.
Instructor in Romance Languages since 1946.
A.B., Clark University, 1945; A.M., Radcliffe College, 1946.

DONALD G. ABBOTT, M.A. 4 Cabot St.
Instructor in English since 1947.
B.A., Tufts College, 1946; M.A., Harvard University, 1947.

DONALD MACQUEEN, M.A. 22 Richards St.
Instructor in Romance Languages since 1947.
B.A., Adrian College, 1937; M.A., University of Michigan, 1938.

LESLIE PHILLIPS Worcester State Hospital
Instructor (Affiliate) in Clinical Psychology.

PHILIP H. BREEN, LL.B. 151 Barnard Rd.
Visiting Lecturer in Business Law since 1947 (January).
A.B., The College of the Holy Cross, 1920; LL.B., Boston University, 1923.

CLARENCE V. HUDGINS, PH.D. Northampton, Mass.
Visiting Lecturer in Psychology, 1947-48.
A.B., Oberlin College, 1928; M.A., 1929; Ph.D., Clark University, 1932.

ERWIN RAISZ, PH.D.
Visiting Lecturer in Geography, 1947-48.
Diploma, Royal Polytechnicum, Budapest, 1914; M.A., 1924, Ph.D., Columbia University, 1929.

TEACHING FELLOWS

MYRON A. BASKIN
History and International Relations.
A.B., Wheaton College (Illinois), 1941; A.M. Clark University, 1942.

CHARLES N. BRICKLEY
History and International Relations.
B.Ed., Rhode Island College of Education, 1945; A.M., Clark University, 1946.

WINNIFRED M. IRWIN
History and International Relations.
A.B., University of British Columbia, 1945.

MILTON G. WEINER
Psychology and Education.
A.B., Clark University, 1946; A.M., 1947.

PHYSICAL EDUCATION STAFF

ERNEST R. WHITMAN Director of Physical Education for Men.	21 Maywood St.
ROCHELEAU Z. GRANGER, JR., M.A. IN ED. Assistant Director of Physical Education for Men. B.A., Clark University, 1938; M.A. in Ed., 1939.	Brookfield, Mass.
M. HAZEL HUGHES, B.ED. Director of Physical Education for Women. B.Ed., Clark University, 1944.	638 Pleasant St.
KATHARINE A. REED, B.A. Assistant Director of Physical Education for Women. B.A., Syracuse University, 1947.	Woodland House

Administrative Boards and Committees

THE UNIVERSITY FACULTY

The Faculty consists of the President, the Librarian, and all members of the staff giving regular courses of instruction. It has immediate supervision over the general educational work of the university and is responsible for the nomination to the Board of Trustees of candidates for baccalaureate degrees and for honorary degrees.

Secretary of the Faculty, Dwight E. Lee.

THE UNIVERSITY SENATE

An advisory board appointed by the President.

Samuel J. Brandenburg
Jesse L. Bullock
Loring H. Dodd
W. Elmer Ekblaw
Robert S. Illingworth
Vernon Jones
Dwight E. Lee
Homer P. Little
Samuel Van Valkenburg

THE GRADUATE BOARD

The Graduate Board consists of the President and representatives of the departments offering advanced graduate instruction. It has general control of the work of the Graduate Division and is responsible for the nomination to the Board of Trustees of candidates for the degrees of Master of Arts and of Doctor of Philosophy.

President Howard B. Jefferson, *ex officio*
Samuel J. Brandenburg
Jesse L. Bullock
W. Elmer Ekblaw
Vernon Jones
H. Donaldson Jordan
Dwight E. Lee
Arthur F. Lucas
Arthur E. Martell
David Potter
Percy M. Roope
Samuel Van Valkenburg
Heinz Werner
James A. Maxwell, *Secretary*

THE COLLEGE BOARD

The College Board consists of the President, the Dean of the college, and six members of the Faculty, appointed by the President. It has immediate supervision over the work of the Undergraduate

Division, subject to the control of the Faculty, and recommends to the Faculty candidates for the bachelor's degree.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*

Henry M. Bosshard
M. Hazel Hughes
Arthur F. Lucas
Paul F. Marble
Percy M. Roope
Rudolph F. Nunnemacher, *Secretary*

THE ACADEMIC COUNCIL

The Council, established by vote of the faculty, is appointed by the President of the University subject to regulations providing for the distribution of its membership among the various divisions and departments.

Its duties are to make recommendations regarding undergraduate educational policies, to check on the program of courses offered to undergraduates and to supervise "honors work", "senior surveys" and comprehensive examinations.

President Howard B. Jefferson, *ex officio*
Dean Homer P. Little, *ex officio*
Arthur F. Lucas, *Chairman*
Henry J. Warman, *Secretary*

Karl O. E. Anderson
Henry M. Bosshard
H. Donaldson Jordan
Homer P. Little
Carey E. Melville
David Potter
J. Richard Reid

ADMINISTRATIVE COMMITTEE FOR THE DIVISION OF BUSINESS ADMINISTRATION

President Howard B. Jefferson, *ex officio*
Arthur F. Lucas, *Chairman*

John E. Bell
Samuel J. Brandenburg
George E. Hargest
Homer P. Little
Raymond E. Murphy

THE COMMITTEE ON PERSONNEL AND ORGANIZATION

Elected annually to advise the President regarding the personnel and the organization of departments.

Henry M. Bosshard
H. Donaldson Jordan
Homer P. Little
Arthur F. Lucas
James A. Maxwell

THE LIBRARY COMMITTEE

H. Donaldson Jordan, *Chairman*
Karl O. E. Anderson
Percy M. Roope

STANDING COMMITTEES OF THE GRADUATE BOARD

The President of the university is, *ex officio,* a member of all committees of the Graduate Board.

THE COMMITTEE ON CREDENTIALS

The committee passes upon applications for admission to the graduate division and makes recommendations to the Graduate Board in respect to fellowships and scholarships and candidacy for graduate degrees.

S. Van Valkenburg, *Chairman*
Samuel J. Brandenburg
Jesse L. Bullock
Vernon Jones
Dwight E. Lee
James A. Maxwell, *Secretary*

THE COMMITTEE ON PROFICIENCY IN FOREIGN LANGUAGES

The committee examines candidates for the degree of Doctor of Philosophy for proficiency in foreign languages.

Philip M. Palmer, Associate Professor of German
J. Richard Reid, Professor of Romance Languages
A representative of the students' major department

STANDING COMMITTEES OF THE COLLEGE BOARD

The President of the university and the Dean of the college are, *ex officio,* members of all committees of the College Board.

EXECUTIVE COMMITTEE

Rudolph F. Nunnemacher, *Secretary*
Paul F. Marble

THE COMMITTEE ON ADMISSIONS

Samuel J. Brandenburg
Robert S. Illingworth
Victor B. Johnson
David Potter

THE COMMITTEE ON ATHLETICS

David Potter, *Chairman*
James A. Maxwell
Ernest R. Whitman
Henry J. Warman

COMMITTEE ON STUDENT FINANCES

Guy H. Burnham, *Chairman*
George E. Hargest
Ernest R. Whitman

COMMITTEE ON SOCIAL AFFAIRS

Rudolph F. Nunnemacher, *Chairman*
M. Hazel Hughes
Donald H. Letendre
Victor B. Johnson

COMMITTEE ON FRATERNITIES

J. Richard Reid, *Chairman*
W. Elmer Ekblaw

COMMITTEE ON PUBLICATIONS

Donald H. Letendre, *Chairman*
Henry M. Bosshard
Percy M. Roope

COMMITTEE ON STUDENT PERSONNEL

Henry M. Bosshard, *Chairman*
Victor B. Johnson
Paul F. Marble
M. Hazel Hughes

THE COMMITTEE ON VETERANS

David Potter, *Chairman*
John E. Bell
Percy M. Roope
Samuel Van Valkenburg

THE UNIVERSITY

HISTORICAL NOTE

WORCESTER AND THE UNIVERSITY

ORGANIZATION

BUILDING AND GROUNDS

THE LIBRARY

ADMISSION

THE ACADEMIC YEAR

TUITION AND OTHER EXPENSES

FELLOWSHIPS, SCHOLARSHIPS AND STUDENT AID

Historical Note

Clark University owes its existence to the interest in higher education of Jonas Gilman Clark, who was born at Hubbardston, Worcester County, Massachusetts, February 1, 1815. Mr. Clark received such formal education as was then provided by a rural Massachusetts community and had established himself in business at the age of twenty-one. In 1853 the opportunities provided by the development of gold mining in California attracted him to San Francisco where, in the course of the next ten years, he amassed a considerable fortune. Shortly after the ending of the Civil War he retired from active business and settled in Worcester. Here, except for several extended trips to Europe, he resided until his death on May 23, 1900.

Conscious of the meagerness of his own early educational opportunities, Mr. Clark devoted his later years to the establishment and nurture of the institution which bears his name. In this he was ably assisted by his wife, Susan W. Clark, and by prominent citizens of Worcester. The charter of the University was granted by the General Court of Massachusetts in 1887. After two years, during which time buildings were constructed and a faculty was assembled, the first students were received in October, 1889.

For president of the new institution the trustees selected Granville Stanley Hall, who had already become widely known as professor of psychology at The Johns Hopkins University. In the field of higher education the major interests of President Hall were in graduate instruction, with vigorous and explicit emphasis upon original research. These interests were decisive in shaping the character of Clark University.

In 1889 there existed in the United States, and especially in New England, reasonably ample provision for undergraduate liberal arts education. On the other hand, there was only one institution, The Johns Hopkins University which had opened its doors in 1876, where particular emphasis was placed upon original research and the training of specialists.

President Hall promptly set about organizing in Worcester an institution concerned exclusively with graduate studies and research. The men brought together as the faculty constituted a small but brilliant and original group of specialists who soon made an enviable reputation for Clark University. In 1900 when the Association of American Universities was founded Clark University was one of the fourteen charter members. For thirteen years, until 1902, the university devoted its attention exclusively to graduate study and research.

As time passed, it became clear that Mr. Clark's purpose in establishing an institution of higher education in Worcester was not being completely fulfilled. Although he was interested in the scholarly work carried on by President Hall and other members of the faculty, he had intended from the beginning to establish an undergraduate college, designed to serve especially the interests of young men of limited financial resources. At his death it was found that his will provided for the establishment of a college in which, in three year's time, young men might secure "preparation for citizenship and their work in life." In compliance with these and other terms of the will the trustees established Clark College with an administration and faculty distinct from those of the graduate school. The first freshman class was admitted to the college in the fall of 1902.

Carroll Davidson Wright, who was then serving as the first United States Commissioner of Labor, became president of the new college, contributing to it both the prestige of a national reputation and the skill of an experienced administrator.

From the beginning Clark College departed from the prevailing type of American college of that day. Seriousness of purpose and hard work on the part of undergraduates were expected. Admission requirements were flexible, but a high standard of performance was necessary to remain in college. The Degree of Bachelor of Arts was granted after three years of study. Student programs were heavier than was common elsewhere.

The general ideas of Mr. Clark were effectively and enthusiastically developed in the formulation of the educational program by the first Dean of the college, Rufus C. Bentley.

President Wright served the college until his death in 1909. His successor was Edmund Clark Sanford, then Professor of Psychology in the Graduate School.

Upon the simultaneous resignations of Presidents Hall and

Sanford in the spring of 1920, the trustees selected Wallace Walter Atwood, professor of physiography at Harvard University, as president of both the graduate and undergraduate departments of the university.

The election of President Atwood marked a shift of emphasis at the graduate level from the field of Psychology, in which President Hall had made the university internationally known, to Geography, which was becoming increasingly prominent under the impact of the first World War on the consciousness of the American people. The Graduate School of Geography, with President Atwood as director, was organized to function within the general framework of the Graduate Department of the University.

Significant changes at the undergraduate level also occurred shortly after 1920. The normal period of residence required for the degree of Bachelor of Arts was increased from three years to four, although the possibility of obtaining the degree in three years remains. Participation in intercollegiate activities, including athletics, was encouraged.

Distinct improvements in the physical equipment of the University were made between 1920 and 1940. A dormitory for men was provided in 1924. In the same year the trustees purchased land, not far from the campus, for an athletic field. The Alumni Gymnasium, the Library Tower and the new auditorium, Atwood Hall, were completed in 1938 and 1939.

In 1941 a vocational program leading to the degree of Bachelor of Business Administration was introduced in the college under the direction of the Division of Business Administration. In 1941 the Women's College of Clark University was established by the trustees of the University, and since the fall of 1942 women have constituted a substantial part of the undergraduate student body. The academic requirements for women are identical with those for men and they attend the same classes.

President Atwood resigned after twenty-six years of service in 1946. He was succeeded by Howard Bonar Jefferson who, at the time of his selection, was professor of philosophy and Director of the School of Philosophy and Religion at Colgate University.

Worcester and the University

When plans for the new University were taking shape in Mr. Clark's mind he enlisted the aid of a group of far-sighted and influential Worcester citizens from whom, later, the majority of his original Board of Trustees was chosen. In this was set a pattern for cooperation between the University and the community which has persisted throughout the history of the institution. The intellectual life of the city has been enriched by the contributions of the faculty and of distinguished guests whom the University has brought to Worcester. Members of the staff have served local institutions, both public and private, in many ways. The college has opened the door to higher education for hundreds to whom the opportunity would have been denied if they had been forced to seek it elsewhere, while the graduate school has aided the more gifted to proceed to the highest levels of intellectual endeavor. Particularly noteworthy has been the service to teachers in the public school system.

On the other hand, the University has benefitted by the support, both financial and intangible, which it has received from the citizens of Worcester. The interchange of services and ideas with the staffs of other Worcester institutions and the opportunity to use their libraries on a reciprocal basis have been invaluable. There is particularly close coöperation between the Department of Fine Arts and the Worcester Art Museum, between the Department of History and International Relations and the American Antiquarian Society and between the Department of Psychology and Education and the Worcester State Hospital. The Worcester Public Library and the University Library coöperate by avoiding duplication in the coverage of certain subjects and by a corresponding widening of the coverage in the fields assigned to each.

In short, the University is conscious that it is a part of the community and that, as such, it has both obligations and benefits. Its steadfast purpose is to strengthen the pattern of mutual interdependence and coöperation.

Organization

The University includes:

At the graduate level:

THE GRADUATE SCHOOL offering instruction leading to the degrees of Master of Arts and Doctor of Philosophy.

THE GRADUATE SCHOOL OF GEOGRAPHY offering instruction leading to graduate degrees in Geography.

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS offering instruction leading to graduate degrees in International Affairs.

At the undergraduate level:

THE COLLEGE FOR MEN (Clark College) offering a general college course leading to the degree of Bachelor of Arts.

THE COLLEGE FOR WOMEN offering a general college course leading to the degree of Bachelor or Arts.

THE UNDERGRADUATE DIVISION OF BUSINESS ADMINISTRATION offering, to both men and women, vocational training, leading to the degree of Bachelor of Business Administration.

THE LIBRARY with an endowment separate from the endowment of the teaching branches of the University.

THE ART COLLECTION, separately endowed for the preservation and expansion of the Art Collection of the University.

THE CLARK UNIVERSITY PRESS is associated with the University in the publication of scientific books and journals.

DEPARTMENTS at present offering courses of study are:

- Biology
- Classics
- Chemistry
- Economics and Sociology
- English Language and Literature
- Fine Arts
- Geography
- Geology

German Language and Literature
History and International Relations
Mathematics
Physics
Psychology and Education
Romance Languages and Literatures

The departmental offerings are currently supplemented by courses in Philosophy, given by President Jefferson, and by a course in Health Education for Women given by Miss Hughes, the Director of Physical Education for Women.

Courses in drawing and painting, in music and in the cultural development of various peoples are offered in the Department of Fine Arts

Courses in business administration are offered under the direction of the undergraduate Division of Business Administration.

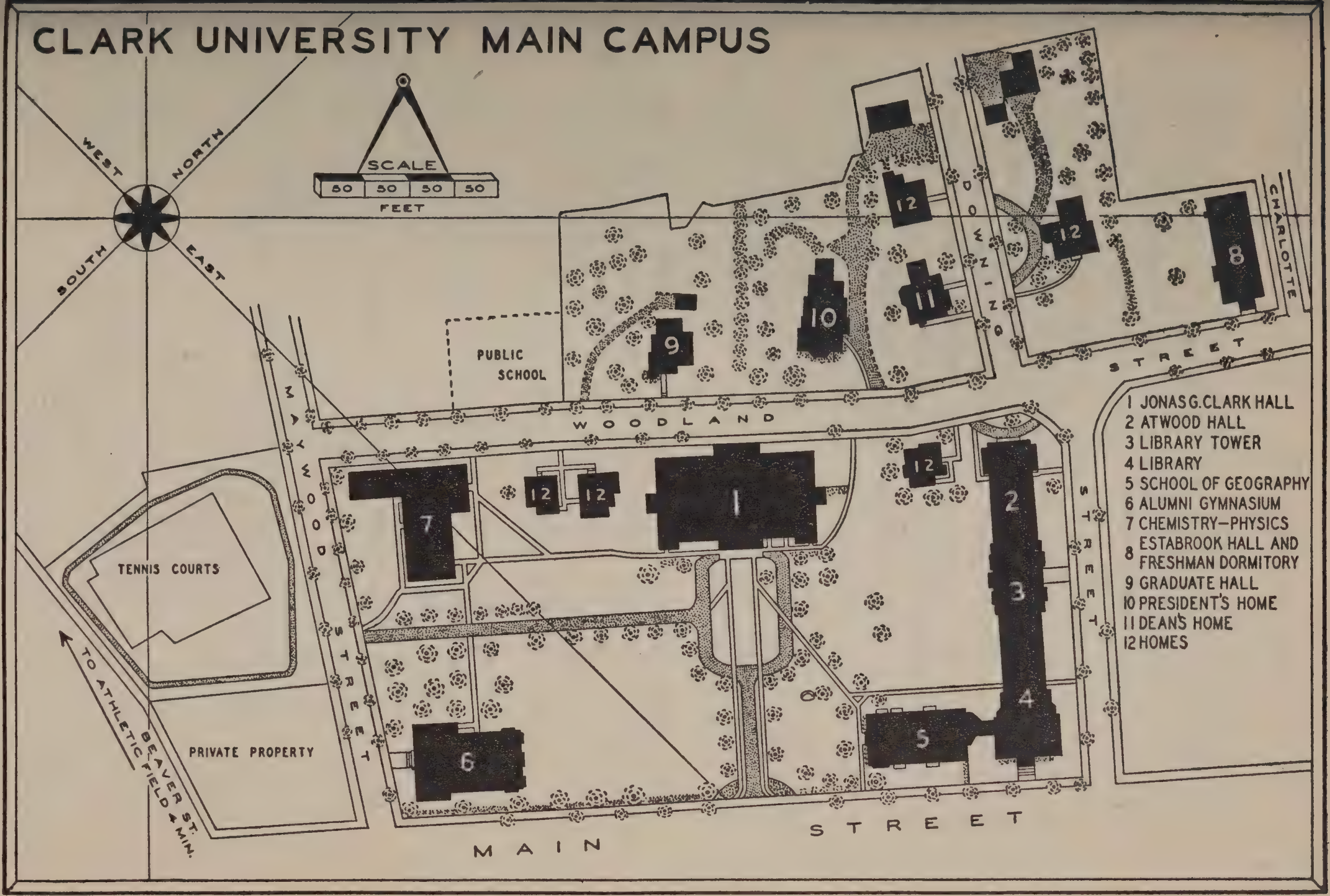
Buildings and Grounds

THE UNIVERSITY CAMPUS is situated on Main Street about a mile and a quarter south of the business center of Worcester. The administrative and educational activities of the University are centered here. On adjacent property facing the campus on Woodland Street, are dormitories, the dining hall, and residences of the President and of the Dean of the College. There is a small athletic field opposite the campus on Maywood Street, providing tennis courts and a running track. A larger field, at the corner of Beaver Street and Park Avenue, is used for soccer, baseball, and other sports. The Hadwen Aboretum, the gift of Mr. O. B. Hadwen, is a tract of about twenty acres at the intersection of Lovell and May Streets.

THE MAIN BUILDING (Jonas G. Clark Hall), completed in 1889, is a four-story, granite and brick structure containing about ninety rooms. It houses the general academic offices of the University and the offices and classrooms of most of the departments of instruction.

THE SCIENCE BUILDING, also completed in 1889, houses the Departments of Physics and Chemistry in a solidly built brick structure with interior partitions of brick.

CLARK UNIVERSITY MAIN CAMPUS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1 JONAS G. CLARK HALL
2 ATWOOD HALL
3 LIBRARY TOWER
4 LIBRARY
5 SCHOOL OF GEOGRAPHY
6 ALUMNI GYMNASIUM
7 CHEMISTRY—PHYSICS
8 ESTABROOK HALL AND FRESHMAN DORMITORY
9 GRADUATE HALL
10 PRESIDENT'S HOME
11 DEAN'S HOME
12 HOMES

The Library Building, completed in 1903, marked a departure from the simpler style of the older buildings. Its design, which has been followed in all of the later University buildings, is a modern adaptation of the Gothic, using brick as the construction material.

The original building, at the corner of Main and Downing Streets, was enlarged in 1910 by the addition of a wing extending along Main Street. This wing is now used partly for library purposes and also houses the President's office and Graduate School of Geography. A second addition to provide for the growing book collections was added to the library in 1939. This is in the form of a tower which connects the Library Building with Atwood Hall.

Atwood Hall has its entrance on Woodland Street and extends along Downing Street to join the library tower. It provides an auditorium with a seating capacity of 850, which is used for weekly college assemblies and other University functions. It is also used for public gatherings.

The Alumni Gymnasium, completed in 1938, is at the corner of Main and Maywood Streets. It provides a playing floor of ample size with seats for 800 spectators. The Gymnasium also contains a comfortable lounging room which provides a convenient and attractive meeting place for various University organizations.

Estabrook Hall, at the corner of Woodland and Charlotte Streets, provides dormitory accommodations for men and contains the University Dining Hall.

There are at present three women's dormitories, all located on Woodland Street near the campus. These accommodate about fifty women.

The President's home and the home of the Dean of the College face the campus on Woodland Street.

The Library

The Library, under the terms of Mr. Clark's will, received one-quarter of his estate for the "support and maintenance of a university library." Thus from the very beginning, the University was provided with good library facilities so essential in higher education.

The book collection consists of over 172,000 volumes, and the Library receives more than 650 periodicals and newspapers. Outstanding features of the Library's collection are complete sets of many scientific journals, an extensive collection of maps, and a collection of musical recordings.

Under the will of the late Colonel William Libbey, for many years professor of geography at Princeton who died in 1927, the University was the recipient of his distinguished collection of books and periodicals.

Mr. Clark's personal library, which contains many rarities and books of more than common interest, became part of the University Library under the terms of his will, and is housed in the Art Room of the Library.

The personal library of President Hall was left by him to the University and is now housed in the offices of the Department of Psychology and Education.

THE ART COLLECTION

Loring Holmes Dodd, *Curator of Art*

In his last will and testament the founder of the university bequeathed to it his collection of oil paintings and other works of art, together with the sum of $100,000 as a permanent and separate endowment for the maintenance and enrichment of the Art Department. A large room on the upper floor of the library building is used to display a selection from Mr. Clark's paintings and other works of art and his most valuable and finely bound books.

A series of eight very beautiful stained glass windows by Joseph Reynolds, Jr., one of the most noted stained glass craftsmen in the country, have recently been added to the collection. Each of these represents a phase of teaching at the University.

Special art exhibitions are arranged from time to time.

Admission

Three classes of students are accepted in the University:

1. GRADUATE STUDENTS, candidates for the degrees of Master of Arts and Doctor of Philosophy; also other mature persons with the necessary educational background. See announcement of the Graduate Schools.

2. UNDERGRADUATES, candidates for the degrees of Bachelor of Arts and Bachelor of Business Administration. See announcement of the undergraduate Colleges.

3. SPECIAL STUDENTS, persons, not prospective candidates for a degree, who wish to take advantage of the opportunities for study provided by the University and who give satisfactory evidence of adequate preparation for the work which they wish to undertake.

A holder of a bachelor's degree who wishes to enroll in a graduate course (a course designated by a number beginning with "2" or "3") is not eligible for classification as a special student. Such persons come under the jurisdiction of the Graduate Board.

Special students are not classified as members of the college or of the graduate school; they are, however, under the supervision of the College Board.

AUDITORS may be admitted at the discretion of the administrative officers of the University. They are not enrolled as students in the University and do not pay the matriculation fee.

The University reserves the right to require the withdrawal at any time of any student whose record in either conduct or scholarship fails to meet the expectations implied by his admission.

Requests for information and for application forms should be addressed to CLARK UNIVERSITY, 950 MAIN STREET, WORCESTER (3), MASSACHUSETTS.

The Academic Year

The academic year for 1947-48 and several preceding years has included two sixteen-week semesters, supplemented by a twelve-week summer term.

In 1948-49 the academic year will be lengthened to thirty-three weeks, divided into two approximately equal semesters. The twelve-week summer term will be discontinued after the summer of 1949. A further revision of the academic calendar may be expected for the year 1949-50.

The academic year begins on the Monday before the fourth Thursday in September and ends, in 1948-49, on the Saturday before the thirty-seventh Monday.

Commencement Day, at the end of the second semester, falls on May 23, 1948 and May 29, 1949.

There are three recesses during the college year: Thanksgiving Day and the two days following; two weeks including Christmas and New Year's Day; and a week near the first of April. University exercises are suspended also on Columbus Day, and Washington's Birthday.

The summer term begins on a Monday early in June.

The twelve-week summer term was introduced to make it possible for an undergraduate to complete the requirements for a bachelor's degree in three calendar years or less. It is believed that the compelling need for the twelve-week summer term will cease to exist after 1949.

The twelve-week summer term is divided into two six-week sessions. The program for the second session is designed to meet the needs of teachers in the public schools and others who, in normal times, would attend a six-week summer school.

Students are expected to be present on the first day of each term and to continue in attendance from day to day to the end of the term.

Tuition and Other Expenses

In accordance with the express wish of the founder the University has consistently aimed to keep its tuition and other fees as low as possible. The tuition has been raised from time to time in response to urgent need, but is still well below that charged by many similar institutions.

MATRICULATION FEE

A matriculation fee of $5.00 is required of all regularly enrolled students in Clark University.

Auditors are not required to pay the matriculation fee.

Official statements of record are issued by the Recorder for matriculated students only.

TUITION

The regular academic year. Tuition for undergraduates with programs of not more than five courses is $380 for the academic year. Undergraduates who enroll for more than five courses pay additional tuition at the rate of $76 per "course", $38 per "half-course".

Each undergraduate pays also a yearly "activities fee" of $20 which is collected with the tuition.

Tuition for graduate students with normal programs, except those in the Clinical Training Program in Psychology, is $380 per year. Graduate students who enroll for less than a full program are charged at the rate of $76 per year for each "course".

Tuition for students in the Clinical Training Program in Psychology is $500 for the academic year.

Tuition for part-time students and special students is at the rate of $76 per "course", $38 per "half-course".

One half of the annual tuition and of the activities fee is collected at the beginning of each semester.

If tuition is not paid within ten days after the beginning of a semester the enrollment of the student lapses. A student whose enrollment has thus lapsed may be re-enrolled, with the permission of the proper administrative officer, on payment of the overdue tuition with an additional fee of $2.

Summer term. Tuition in the summer term, with a normal program of two subjects, is $76 for each session of six weeks. Tuition is charged at the rate of $76 per "course", $38 per "half-course" for other programs.

Tuition is due and payable at any time before 5 P.M. of the Thursday following the beginning of each session of the summer term.

The following regulation was adopted by the trustees on March 28, 1931:

"No refund of tuition and no release of obligation to pay tuition shall be made because of failure for any reason on the part of a student to complete the work of any semester after it is begun."

LABORATORY FEES AND DEPOSITS

Laboratory fees, payable at the time of registration, are charged in undergraduate "laboratory courses" as follows:

$10 for each "course."

$5 for each "half-course."

A "breakage deposit" is required in all undergraduate "laboratory courses" in chemistry. These deposits are collected by the Bursar, at the time of registration, according to the following schedule:

$20 for either Chemistry 110, 111 or 215.

$30 for any two of the above courses taken concurrently.

$10 for each "course," excepting those listed above.

$5 for each "half-course," excepting those listed above.

The Bursar returns any unused balance or collects any charge for breakage in excess of the deposit, after the course is completed.

Graduate students taking undergraduate courses pay the same fees and deposits as undergraduates.

A deposit of $25 is required for each graduate student in the department of chemistry, at the beginning of the year. Ordinary supplies and materials are charged to the student's account at cost. Any balance remaining is refunded at the end of the year.

DIPLOMA FEES AND PUBLICATION FEES

For a bachelor's degree, the diploma fee, $5, is due at the beginning of the term in which the candidate expects to complete work in residence for the degree.

For a master's degree, the publication fee, $10, and the diploma fee, $10, are due when formal application for admission to candidacy for the degree is filed.

For the degree of Doctor of Philosophy, the publication fee, $15, and the diploma fee, $25, are due when formal application for admission to candidacy for the degree is filed.

MISCELLANEOUS FEES

Each freshman pays an "induction period fee" of $5.00.

The "activities fee" is listed in connection with tuition.

Graduate students who use the gymnasium pay a fee of $10 per year.

Graduate students in geography pay, in addition to the regular tuition, a "camp fee," a "workroom fee" and a "classroom-materials fee." For details see the announcement of the Graduate School of Geography.

Students who elect Fine Arts 1 pay a fee of $10 in addition to the regular tuition.

Students who elect History 11 pay a fee of $1 in addition to the regular tuition.

DINING HALL

Board at the dining hall is furnished at a reasonable rate which has varied from year to year. During the current year the charge is $9.50 per week, with *no refunds for absences except in cases of protracted illness.*

Undergraduates who do not live in their own homes are required to board at the dining hall.

DORMITORIES

Freshman men not living in their own homes or with near relatives are required to room in Estabrook Hall.

Women students who do not live in their own homes or with near relatives are required to room in one of the Women's Dormitories.

The charges for rooms in Estabrook Hall are as follows:

For all rooms, except those on the mezzanine floor:
  Suite of two rooms occupied by two men, $125 per year for each occupant.
  Suite of two rooms occupied by one man, $150 per year.
  Single room occupied by two men, $110 per year for each occupant.
  Single room occupied by one man, $135 per year.
For rooms on the mezzanine floor:
  Single room occupied by two men, $115 per year for each occupant.
  Single room occupied by one man, $135 per year.

The charges for rooms in the Women's Dormitories are as follows:

- Single room occupied by one student, $150 per year.
- Double room, $110 per year for each occupant.
- Triple room, $90 per year for each occupant.

Dormitory room rent is payable either in advance or one-fifth at the beginning of each semester and one-tenth on the first day of November, December, January, March, April and May. Each student is required to deposit $25 before occupying a room. This deposit is returned, less a charge for lights and any charges for damages to the room or its furnishings, after the key to the room is surrendered to the Bursar.

Rooms are assigned to freshmen in order of application, when the application is accompanied by the deposit of $25. Students who indicate a desire to room together will be accommodated whenever possible. Rooms not required for freshmen may be rented by upper classmen or by graduate students.

COLLEGE EXPENSES—SUMMARY

A student in the college who lives in the dormitory and boards at the dining hall will find that the necessary cost for a college year (September to May) is about $900 in addition to personal expenses.

This expense is distributed as follows:

Annual fees	
Tuition	$380.00
Room rent*	90 to 150.00
Board (32 weeks at $9.50)	304.00
Activities fee	20.00
Laboratory fees (estimated)	5.00 to 30.00
Books and supplies (estimated)	50.00
Total	$849.00 to 934.00
Non-recurring fees, collected in the first year only	
Matriculation fee	$5.00
Induction period fee	$5.00

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*Rent in Quonset huts is at the rate of $2.50 per week.

Fellowships, Scholarships and Student Aid

In addition to the fellowships and scholarships provided by the University from endowed funds and other sources there are available throughout the United States numerous scholarships and fellowships supported by philanthropic foundations, fraternal organizations or large commercial enterprises. These are frequently awarded competitively on a nation-wide or a state-wide basis.

A great many scholarships, especially at the college level, are provided by local sources of various kinds. Any person who is interested in, or dependent on, aid in the form of fellowships and scholarships for the furtherance of his education may find it advantageous to inquire about such offerings from school officials, churches, fraternal organizations, chambers of commerce, etc.

Loans for educational purposes are also available from similar sources.

GRADUATE FELLOWSHIPS, SCHOLARSHIPS AND ASSISTANTSHIPS

Graduate fellowships and scholarships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy at Clark University. Appointments are made on the basis of scholarly promise and seniority and on the recommendation of the departments. The number of appointments available in any department vary from year to year. Fellows and scholars are expected to coöperate with the staffs of the various departments, and may by mutual agreement undertake limited responsibilities. They are never called upon to perform services which would interfere with the completion of a full-time program of graduate study.

Teaching fellowships are available in certain departments. These involve a specified amount of instruction with stipends which vary according to the amount of service agreed upon.

Stipends for graduate fellowships are provided by the income of the George Hoar Fund which was given to the University by Andrew Carnegie, and from other special funds.

Assistantships are available in several departments. These positions involve a variety of services with stipends to correspond, and usually provide the student with experience which will be useful in his later professional work.

Appointments to fellowships and scholarships are announced about April first in accordance with an agreement among the members of the Association of American Universities. Assistants may be appointed at any time.

Inquiries concerning any of the above types of appointment should be addressed to the chairman of the department concerned.

STUDENT AID FOR GRADUATE STUDENTS

Student aid is available from the following funds, with the restrictions noted.

THE JOHN WHITE FIELD FUND. This fund of five hundred dollars was established by Mrs. Eliza W. Field. The income is to provide for the minor needs of a scholar or fellow.

THE GEORGE S. BARTON FUND. The income from this fund of five thousand dollars is devoted to aid some one or more worthy native born citizens of the City of Worcester.

THE ELIZA D. DODGE FUND. The income of this fund of one thousand dollars is granted to graduate students of limited means who are engaged in research work.

THE CHESTER BLAND FUND. The income of this fund is preferably used to provide aid to a promising student, either in residence or engaged in research elsewhere under the direction of the department of History and International Relations. It may also be used to defray the expense of visiting lecturers or of departmental research.

THE MORTON L. "SONNY" LAVINE FOUNDATION. The income from this memorial to Lieutenant Lavine of the United States Army, World War II, is to be used in the promotion of research in the Department of History and International Relations. The fund amounts to $1000.

ALUMNI ASSOCIATION FUND. This scholarship fund for the benefit of students who are studying for the degree of Doctor of Philosophy was provided by alumni who hold that degree.

LOANS FOR GRADUATE STUDENTS

Loans are available for graduate students from the following funds. These loans bear interest at four per cent per year.

Alumni Loan Funds. Loans from these funds are available on suitably endorsed notes. Applications require the approval of the student's major department, the Committee on Credentials of the Graduate Board, and the chairman of the Alumni Loan Fund Committee.

The Mary S. Rogers Scholarship and Loan Fund has been able, since its founding in 1926, to care for every need for loans in the Graduate School. The balance of the fund is now over $30,000. Loans bear interest at 4 per cent per annum.

The Sarah M. Thurber Loan Fund was established by the late Dr. Charles H. Thurber, former president of the Board of Trustees, as a memorial to his mother. This fund is administered by the president of the university.

UNDERGRADUATE SCHOLARSHIPS

Undergraduate scholarships are generally awarded on the basis of pecuniary need with due regard to character and ability. Such scholarships are provided from a variety of sources and vary in amount. Some of them are restricted to residents of a definite locality. In other cases preference is given to applicants from a particular locality or to those studying particular subjects.

Scholarships are awarded at the beginning of each semester. Ordinarily a scholarship for the first semester will be continued through the second semester if the recipient maintains a scholarship record which places him in the upper half of his class.

To be eligible for a scholarship award an entering student must have had a scholarship average which placed him in the upper third of his preparatory school class.

Applications for undergraduate scholarships should be filed at an early date on forms which may be secured at the college office.

The Jonas G. Clark Scholarships, established by the trustees, provide either full tuition or half tuition for undergraduate male students from outside of Worcester.

The Theodore T. and Mary G. Ellis Scholarships provide either full tuition or half tuition for male residents of Worcester who are students in "the collegiate department of Clark University."

The Sanford Memorial Scholarship Fund, established by alumni of the university in honor of Edmund C. Sanford, president of Clark College from 1909 to 1920, provides an annual scholarship amounting at present to $200 for a male undergraduate.

The Livermore and Ambulance Scholarship was endowed by citizens of Worcester in honor of Charles Randall Livermore, the first Clark man to fall in battle in the first World War, and of his companions in the Clark Unit of Ambulance Drivers. Fifty dollars or more is awarded annually on the basis of academic success, character and usefulness to the college. This scholarship is for male undergraduate students who are residents of Worcester County.

The Henry A. Willis Fund provides scholarships for male students from Fitchburg, Massachusetts, and vicinity. In the absence of suitable candidates from this community grants may be made to others.

The Helen Brewster Randolph Memorial Scholarship Fund, established by the late Professor Charles B. Randolph, provides about $250 annually for scholarships for male college students, preferably those whose "major" is a foreign language.

The Gordon A. Hubley Scholarship Fund of approximately $25,000 was bequeathed by Alice B. Hubley in memory of her son, a graduate of the college in the class of 1910. The income is to be used for the assistance of male undergraduates who are residents of Worcester.

The B'nai Brith Scholarship, provided by the Worcester chapter, Order of B'nai Brith, is primarily but not exclusively for the aid of Jewish students.

The Probus Club of Worcester offers an annual scholarship of one hundred dollars.

The Harry G. Fager Scholarship of the Odin Club is awarded annually to some young man of superior scholarship and personality, with limited means and of Scandinavian blood, from Worcester or vicinity. This scholarship, $200, is awarded every second year to a student at Clark University.

The Clark University Faculty Women's Club offers scholarships to undergraduate students, either men or women, who rank high in intellectual and personal qualities. Alumnae of the university and wives of alumni coöperate with the club in providing these scholarships.

The Clark University Alumnae Association offers at present two scholarships to students in the Women's College.

Aid given in the form of scholarships is not regarded as a loan. It is recognized, however, that those who receive such aid may wish to return the amount in later years. Any sums received from this source will be added to the Alumni Loan Fund of the College or to any designated scholarship fund.

UNDERGRADUATE LOANS

Loans are covered by endorsed notes payable at a fixed date and bear interest at the rate of 4 per cent per year. Interest received from loans is in all cases added to the fund from which the loan was made.

Loans from the funds described below are made to undergraduates by the Dean of the college in coöperation with the Alumni Committee on Loans.

The Alumni Loan Fund is a permanent revolving fund established by the trustees and the alumni. To this has been added a fund of about $500 contributed by L. Kelly Foster, C. B. L. Kelley, Isador Lubin, H. M. Smith, and others.

The Estabrook Loan Fund was created by the generosity of the late Arthur F. Estabrook of the Board of Trustees.

The Haskell Talamo Loan Fund has been established by relatives and friends of the late Doctor Haskell Talamo, A.B., Clark University, 1916.

The Louis N. Wilson Fund, established by the first librarian of Clark University, is a loan fund for male students in the college.

GRADUATE AND UNDERGRADUATE PROGRAMS

THE GRADUATE SCHOOL

THE GRADUATE SCHOOL OF GEOGRAPHY

THE GRADUATE DIVISION OF INTERNATIONAL AFFAIRS

THE MEN'S COLLEGE (Clark College)

THE WOMEN'S COLLEGE

THE DIVISION OF BUSINESS ADMINISTRATION

The Graduate School

Admission to the Graduate School is open to properly qualified persons, both men and women. Instruction and opportunities for study leading to the degrees of Doctor of Philosophy and Master of Arts are offered in the following subjects:

- Chemistry
- Economics
- Geography
- History
- International Affairs
- Psychology

Work leading to the degree of Master of Arts is also offered in the following subjects:

- Biology
- Education (Master of Arts in Education)
- Physics

Courses of an advanced nature in other subjects may, with the consent of the Graduate Board, be included in the programs of graduate students.

ADMISSION TO THE GRADUATE SCHOOL

Admission is granted only by the Graduate Board on recommendation of a department.

Application. A prospective applicant should communicate with the department in which he expects to do his major work. If he is encouraged by the department to make application, he will receive the application blanks and should submit them to the chairman of the department with an official transcript of undergraduate work, letters of recommendation from two persons who are competent to judge his qualifications, and a recent photograph (passport size preferred).

In addition, applicants for admission to the graduate school are strongly urged, and may be required, to submit a record of attainment in the Graduate Record Examination. This examination tests general knowledge in the field of study covered by the curriculum of the liberal arts college, and requires no special preparation. It is useful as an indication of the general preparation of the student, and as a guide in planning his course of study.

Admission. In granting admission, the Graduate Board may, with the advice of the department, prescribe a minimum period of residence, never less than one year, and other definite requirements, including courses in particular subjects, as prerequisites for a graduate degree. Admission to the Graduate School does not in any way imply admission to candidacy for a degree. Admission to the Graduate School is granted for entry only at a specified time, and lapses if the student fails to enter at that time. If, after an applicant has entered as a regular student, his period of graduate study is broken by more than a year, he must make formal application for reinstatement.

Admission of seniors to graduate courses. Seniors in Clark College who rank in the upper third of their class may, in exceptional cases, be admitted to courses primarily for graduate students by authority of the Secretary of the Graduate Board on formal recommendation in each case by the department in which the course is offered and after approval by the College Board.

SCHOLARSHIPS, FELLOWSHIPS, AND STUDENT AID

Scholarships and fellowships are available for prospective candidates for the degrees of Master of Arts and Doctor of Philosophy respectively. Application for a scholarship or fellowship should be made before March first to the chairman of the department in which the applicant expects to do his major work. Applications, after being endorsed by the departments, are acted upon by the Graduate Board.

According to an agreement of members of the Association of American Universities, the elections of fellows and scholars will be communicated on April first, but not before, to each member of the Association and to each successful candidate.

Some fellowships are designated as research fellowships or teaching fellowships, with the consent of the applicant and on the recommendation of the department, in cases where research or teaching assistance in the department is to be a duty of the fellow.

Assistantships are available in certain departments. Appointments to these positions are usually made from the list of fellows. Application should be made to the chairman of the department.

Stipends for fellows and scholars, other student aid and educational loans for graduate students are provided by the income of special funds which are listed elsewhere under the heading, "Fellowships, Scholarships and Loan Funds."

THE DEGREE OF MASTER OF ARTS

An academic year of full-time study in residence, or its strict equivalent in summer sessions and part-time study, is a minimal requirement for a master's degree. Residence study is broadly defined as graduate work done at Clark University under the immediate personal supervision of at least one member of the university faculty.

A reading knowledge of a foreign language, usually French or German, may be required of candidates for the degree of Master of Arts at the discretion of the major department.

Application for admission to candidacy for a master's degree should be filed with the Secretary of the Graduate Board not later than the first week of the last full semester which the student expects to spend in residence as a candidate for this degree. Applications will be considered by the Graduate Board when the student has:

1. Completed one semester of full-time graduate work or its equivalent in residence at this university;
2. Paid the diploma fee ($10) and publication fee ($10);
3. Obtained the written endorsement of his major department.

Candidacy for the degree of Master of Arts will, unless extended by action of the Graduate Board, hold good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When the candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Each student must meet a minimal course requirement of five courses, or their equivalent in half courses. The program must be approved by the major department. One of the courses may be a research course devoted to the preparation of the thesis. The thesis will be written on a topic in the field of the student's special interest under the supervision of a member of his major department. A copy of the thesis, together with an abstract, both approved by the supervising instructor, must be deposited in the Recorder's office not later than three weeks before the date of the commencement at which the degree is to be conferred. The abstract must not exceed 600 words in length. Both the thesis and the abstract are deposited by the Recorder in the University Library. Each candidate must make a satisfactory record in such written examinations as may be required by the major department, and in a final oral examination by a committee of three or more, two of whom must be members of the Graduate Board.

THE DEGREE OF DOCTOR OF PHILOSOPHY

Only such candidates as give evidence of general proficiency, power of investigation, and high attainments in the special field in which their major subjects lie will be encouraged to proceed to the degree of Doctor of Philosophy.

Foreign languages. A prospective candidate for the doctor's degree is advised to prepare himself early for the oral examinations in the reading of modern foreign languages. French and German are required except in cases where the Graduate Board may authorize the substitution of another language for one of these. A student must pass the foreign language examinations before he will be permitted to take the preliminary examination for the degree of Doctor of Philosophy. These examinations are conducted by a committee composed of representatives of the modern language departments and a representative of the student's major department. The committee reports the results of the examination to the Recorder. Additional language requirements may be imposed by the student's major department.

Admission to candidacy. Applications for admission to candidacy must be filed not later than November first in any academic year, by students who hope to receive the degree at the end of that academic year. An application for admission to candidacy will be considered by the Graduate Board when the applicant has:

1. Completed two full academic years of graduate work or its equivalent;
2. Passed the required examinations in foreign languages;
3. Passed a preliminary examination in his chosen fields of study;
4. Paid the diploma fee ($25) and publication fee ($15);
5. Obtained the written endorsement of his major department.

Candidacy for the degree of Doctor of Philosophy holds good for three years from the date of admission to candidacy. For satisfactory reasons, candidacy may be extended once for an additional period of three years by vote of the Graduate Board. When candidacy expires without the degree having been awarded, the diploma and publication fees, less any expenses incurred, are returned.

Dissertation. A dissertation which is expected to make an original contribution to some special field of knowledge is required of each candidate.

The dissertation, with comments of the chief instructor and other readers, is laid before the examining committee at the final oral examination.

An abstract of the dissertation, approved by the instructor under whom it was written and not exceeding 1200 words in length, is also required.

Two copies of the dissertation and three copies of the abstract must be provided in a form which is prescribed and each copy must be signed by the chief instructor.

Four weeks before the date of the Commencement at which the degree is to be conferred, one completed copy of the dissertation and two copies of the abstract must be deposited in the office of the University Recorder. This copy of the dissertation and one copy of the abstract are deposited in the University Library where they remain permanently.

At the same time a second copy of the dissertation and a copy of the abstract must be delivered to the major department. These may be retained in the department or deposited in the library for loan purposes.

Final examination. The final examination is oral and lasts for at least two hours; additional written examinations may be given if the major department so directs. The candidate is expected to defend his dissertation and, at the discretion of the examining committee, may be questioned on the entire special field of his study. The oral examination is conducted by a committee of at least four members, including the chairman and one other member of the major department, a member of the Graduate Board under whom the candidate has done no work, and such other members of the Graduate Board as may be duly appointed. The president of the university is authorized to invite any person from within or without the university to be present and to assist in the examination.

The Graduate School of Geography

SAMUEL VAN VALKENBURG, PH.D., Director of the Graduate School of Geography and Professor of Geography.

W. ELMER EKBLAW, PH.D., Professor of Geography; Editor, *Economic Geography.*

RAYMOND E. MURPHY, PH.D., Professor of Economic Geography

RICHARD J. LOUGEE, PH.D., Associate Professor of Physiography.

HENRY J. WARMAN, PH.D., Assistant Professor of Geography; Secretary of the Graduate School of Geography.

GUY H. BURNHAM, A.M., Cartographer and Instructor in Geography.

VISITING PROFESSORS AND SPECIAL LECTURERS, 1947-48

ALBERT CARLSON, PH.D., Geography Department, Dartmouth College, Autumn Field Camp.

VAN H. ENGLISH, PH.D., Map Curator, Dartmouth College, Autumn Field Camp.

ERWIN RAISZ, PH.D., Harvard University, Special Lecturer in Cartography.

The Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The map collection, libraries, and special laboratories for cartography and interpretation of aerial photographs, provide unusual facilities for research work in residence. The staff, composed of specialists in their various fields of geography, must spend part of their time in travel and field studies. While in residence, they offer regular courses of instruction and direct advanced students in research work. Special lecturers, both American and foreign, supplement the regular staff. Not all courses of instruction are offered each year; many are given in alternate years. All graduate students are encouraged to undertake independent field studies as part of their university work.

GRADUATE WORK IN THE SCHOOL OF GEOGRAPHY

Work is offered leading to the degrees of Master of Arts and Doctor of Philosophy in Geography. Candidates for the master's degree will pass written examinations in at least six of the following fields: physiography, climatology, soils and land utilization, plant geography, economic geography, human geography and cultural geography, regional geography, and political geography. The oral examination for the master's degree covers four fields approved by the Staff. The master's degree requires two years except for those whose preparation has been adequate enough in fundamentals to enable them to qualify in less time.

Candidates for the doctor's degree in geography will pass written examinations in the above fields, and a general oral examination covering six major fields approved by the staff. In general, a year of work beyond the master's degree should prepare a candidate for the general examination preliminary to his acceptance as a candidate for the doctor's degree and to his concentration work for his dissertation. This year of course work may well include, besides certain advanced courses in geography, related advanced studies in biology, economics, history and international relations chosen from the following: botany (Biol. 14); economic history (Ec. 12); economic statistics (B.E. 16); international trade, theory and finance (Ec. 27a); international economic policies (Ec. 31); The Pacific and the Far East (Hist. 22).

THE FIELD CAMP

A distinctive feature of the Graduate School of Geography is the autumn field camp of three weeks' duration at the beginning of the fall term. All resident prospective candidates for graduate degrees in geography are expected to attend the field camp each autumn. The field program includes studies in physiography, land utilization, industrial geography and weather observations, with special training in mapping and other field techniques. Cars, scientific instruments and other equipment are provided. Suitable field clothing and blankets must be provided by the individual student. Following return to the campus, about ten days are allowed for completion of field reports. Formal course work begins on the second Monday after the close of the field camp.

Formal course work in geography ends about May 1st, leaving students free to read and to coördinate their work prior to the examination period.

STUDENTS' FEES

All geography students in residence must pay in addition to the general university fees, the camp fee, the workroom fee, and the classroom-materials fee.

The camp fee, determined on a cost basis, varies between $50 and $80, payable to the camp director on or before the first day of camp. For a student taking the field course only, the tuition fee is $25 in addition to the camp fee. The camp fee covers board and lodging, transportation, maps, drafting supplies and the use of meteorological instruments and other equipment for the three weeks' period.

The workroom fee, $5 a semester, is payable to the department November 1st and March 1st. It helps maintain the geography workroom and equipment used by graduate students—alcove desks, files of maps, card catalogue, drafting tables and instruments, and adding machines.

The classroom fee, $5 a semester, is payable November 1st and March 1st to the department. It is for mimeographing and for the maintenance, in part, of the classroom wall maps and other equipment, and for the expense of meteorological materials.

COURSES IN GEOGRAPHY

The following courses were given in 1947-48. The numbers indicate courses as described under "Geography" in the alphabetical list of departments and courses of instruction unless other information is given.

10, 12, 383a, b.	Mr. Warman
16, 36, 387a, 361b.	Mr. Murphy
201, 32, 300, 385.	Mr. Van Valkenburg
27a, b, 34a, b.	Mr. Ekblaw
18a, b, 314 (Map Interpretation)	Mr. Lougee
191.	Mr. Burnham
30. Seminar.	Staff
300. Ph.D. Seminar.	Mr. Van Valkenburg
399a. Field Studies.	Staff
391.	Visiting Professor Raisz

Courses in Geography which are to be offered in 1948-49 will be found listed, with descriptions, under "Geography" in the list of Departments and Courses of Instruction.

The Graduate Division of International Affairs

GEOGRAPHY, DIPLOMACY, ECONOMICS

ADMINISTRATIVE COMMITTEE

Samuel J. Brandenburg, *Professor of Economics and Sociology*

Dwight E. Lee, *Professor of Modern European History*

Samuel Van Valkenburg, *Director of the Graduate School of Geography*

The Graduate Division of International Affairs aims to meet a demand for graduate work which will be devoted entirely to the general field of international affairs and which will include work in geography, history and international relations, and economics. This division groups together appropriate courses and seminars in order to prepare graduate students for the government service of the United States, college and university professorships in international affairs, posts in corporations and banks doing foreign business, and research and administrative positions in the field of world affairs. The courses include offerings in political, regional and economic geography; foreign trade, commerce, and finance; international law; modern and diplomatic history; and the foreign policy and international relations of the United States.

ADMISSION

Qualified graduate students who are interested in International Affairs are admitted either in the Department of History and International Relations or in the Department of Economics and Sociology or in the Graduate School of Geography. Inquiries and applications may be addressed to any one of them.

PROGRAMS

Programs in International Affairs are adjusted to the special interests of the individual students. Programs are arranged in consultation with the staff and require the approval of the committee in charge of the division.

The Men's College

"CLARK COLLEGE"

The college offers a general program leading to the degree of Bachelor of Arts, and a vocational program leading to the degree of Bachelor of Business Administration.

ADMISSION TO THE FRESHMAN CLASS

Inquiries regarding admission and requests for blank forms should be addressed to the Dean of the College, Clark University, Worcester 3, Mass. Application for admission should preferably be made by March 1. A deposit of $20 is required with the application. This is returned if the applicant is not admitted. If the applicant is admitted, this deposit is retained by the University and is credited on the applicant's first tuition bill. *No application received after May 1 can be promised consideration.*

An applicant for admission to the freshman class is required to furnish satisfactory character references. He must also furnish his records from all preparatory schools which he has attended. Records of entrance examinations which he may have taken and of action by any other college in respect to his admission are also required.

The completion of a four-year high school course or its equivalent, including fifteen acceptable units of credit, is normally required for admission to the freshman class. The term "unit" is understood to mean approximately one-quarter of the pupil's normal program of work for the school year.

The fifteen acceptable units of credit which are required for admission as a candidate for the degree of Bachelor of Arts must include:

Required subjects, 5 units.
  English, 3 units (4 years).
  *Mathematics, 2 units (algebra and geometry).

Restricted electives, 7 or more units chosen from:
  Foreign language, 2, 3, or 4 units. (The college does not accept less than 2 units in any foreign language.)

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*Applicants expecting to specialize in "science" are advised to present at least 3 units of mathematics.

Social sciences, 2 or 3 units (history, government, civics, economics, etc.)
Natural sciences, 2 or 3 units (physics, chemistry, biology, etc.)
Mathematics, 1 or 2 units (in addition to required units).

Free electives; not more than 3 units, at the discretion of the committee on admissions, in subjects recognized by the applicant's preparatory school in its regular program.

Quality Requirements. Applicants whose references are satisfactory and who are "certified" in fifteen acceptable units may be admitted without conditions. A principal may also give "blanket certification" without consideration of specific subjects. In doing so he accepts complete responsibility for the student's success in college.

Applicants who present fourteen "certified" units and one "pass" unit may be admitted with *one condition* (see below); applicants who present thirteen "certified" units and two "pass" units may be admitted with *two conditions.* No applicant with less than thirteen acceptable units of "certified" credit or its equivalent will be accepted without examination unless his average grade places him in the highest quarter of the class with which he graduates from high school. Applicants who qualify under this provision may be admitted "with two conditions."

Certificates are accepted from schools in New England on the basis of well established standards which prevail in that region.

A certificate from a school which lies outside New England will be interpreted to mean that the student is prepared to undertake college courses for which the certified subjects are prerequisite. A school will be judged in respect to continued certification privilege, on the basis of the college records of the candidates in the certified subjects.

Entrance Examinations. Applicants who cannot present the necessary number of "certified" units should arrange in consultation with the Dean of the college to take examinations which are given by the College Entrance Examination Board. The college will determine in each case what constitutes a satisfactory record in such examinations.

Conditions. Conditions may be in specified subjects, or may be general, in the latter case indicating some deficiency in the candidate's preparation as a whole.

Applicants who are accepted "with conditions" have an opportunity to free themselves from these conditions before enrolling, by satisfactory records in "College Board" examinations.

Conditions are removed if, at the end of the freshman year, the student has met the scholarship requirements for regular standing, namely, no failures and grades above D+ in three-fourths of the normal credit for the year.

A last chance to remove conditions is offered by "College Board" examinations after the end of the freshman year and before the beginning of the sophomore year.

Each condition not removed before the beginning of the sophomore year is replaced by an additional requirement for graduation amounting to one-half course.

ADMISSION WITH ADVANCED STANDING

A student who wishes to enter the college after attending another institution of college grade is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification. He will not be given a final class rating until he has been in residence for at least one semester.

After a semester in residence he will be given conditional credit for the work done elsewhere to an amount determined by vote of the College Board, on the recommendation of the Recorder and the departments concerned.

A graduate of the three year course of the Worcester Art Museum School may be admitted as a candidate for the bachelor's degree with the rank of *junior* in the college.

The bachelor's degree will not be conferred upon a student until he has spent at least a year in residence at Clark University, and usually not unless the period of residence includes the two semesters immediately preceding the granting of the degree.

THE ACCELERATED PROGRAM

Since 1942, Clark University has offered an "accelerated program" of college work which permits a student who takes advantage of the twelve-week summer term to complete the requirements for a bachelor's degree in three calendar years.

It is expected that the accelerated program will be continued through the Summer of 1949.

FACULTY ADVISERS

When a student is admitted to the college he is assigned to a member of the faculty who will act as his adviser. The adviser will assist the student in making up his program of studies for registration and will be ready at all times to afford him help and counsel.

FRESHMAN INDUCTION PERIOD

The freshman class of the men's college assembles for an induction period a few days before the beginning of the academic year, in September. This period is usually spent at a camp in the vicinity of Worcester and is used to complete certain important preliminaries before the beginning of class work.

A fee of $5 is charged for the induction period.

REGISTRATION

Each student is required to "register" for a program of studies at or before the beginning of each semester. Due notice of registration periods is given. Failure to register before the end of the periods designated involves a charge of $1 for each day's delay up to a maximum of $5.

Changes in registration may be made, on forms supplied by the Recorder, within a reasonable time after the beginning of the semester.

Freshmen may register for programs of either five or six courses in the first semester. In subsequent semesters programs of six courses are restricted to students whose average grade in all courses for the preceding term has been C+ or better, except in the case of seniors. A senior whose graduation depends upon the completion of a program of six courses may register for such a program if his average grade for the preceding term has been C— or better.

The designation of a *major subject* is required as part of registration at the beginning of a student's second year in college. This election when once recorded may be changed only with the approval of the Dean. Although the *major subject* is not officially recorded until the student's second year in college, he should plan his program from the beginning with his probable choice in mind.

STUDENT PROGRAMS

The curriculum permits considerable freedom of adjustment to individual differences of interest. Each student's program of studies includes a group of courses constituting a *major,* also courses in English, in foreign language, and in fine arts or music, and other courses chosen under regulations intended to insure a reasonable distribution of work among the various departments. A large part of each program is made up of courses chosen without restriction.

For statements regarding courses which may be combined to form a *major,* the announcements of the different departments should be consulted.

A regular student normally carries a program of five courses throughout the academic year, September to May, in addition to required work in physical training. In general it is expected that a course meeting three times weekly will require a minimum of two hours of preparation for each lecture or recitation. Laboratory periods are usually three hours in length.

A student carrying the regular program should, therefore, expect his college work to require from forty-five to fifty hours of his time per week, in addition to the work in physical training.

Regular attendance at a weekly assembly is required of all students.

Instruction is offered in four groups of subjects.

Group A. (Science and Mathematics.) Biology, botany, chemistry, experimental psychology, geology, mathematics, meteorology and climatology, physics, and physiology.

Group B. (Social Sciences.) Economics, education, geography, history, international relations, philosophy, psychology, and sociology.

Group C. (Language.) Greek, Latin, English, French, German, and Spanish.

Group D. Fine Arts.

The Freshman Program. A first-year student must make up his program entirely from courses designated as "Open to Freshmen."

A candidate for the degree of Bachelor of Arts must include the following courses in his program for the freshman year:

1. English 11.
2. A course in foreign language.
3. A course in group A.
4. A course in group B.
5. An elective. (Mathematics 10 or 11 for students intending to major in group A, including pre-dental and pre-medical students.)

Candidates for the degree of Bachelor of Business Administration will follow the program outlined under the announcement of the Division of Business Administration.

Any first-year requirements which have not been completed must be included in the program of courses for the second year.

The Program for Undergraduates Other Than Freshmen. Undergraduates, other than freshmen, may enter any course listed under the heading, "primarily for undergraduates," for which, in the judgment of the instructor in charge, they are prepared. Seniors and juniors who have completed the published prerequisites are admitted, at the discretion of the instructor in charge, to courses listed under the heading, "for advanced undergraduates and graduate students." Undergraduates are not admitted to courses "primarily for graduate students" except in rare cases, and then only after a special vote of the College Board and the approval of the secretary of the Graduate Board.

Regular physical exercise is required of all students, with the exception of veterans, for the general promotion of their health and mental efficiency. Physical training is scheduled at times which avoid conflict with recitation hours. *Students are usually excused from this requirement only on the recommendation of the college physician.*

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

All college regulations involving a quantitative statement of "credit" are expressed in terms of "courses."

A "course" as a unit of credit normally implies three or four class meetings or laboratory exercises per week throughout two semesters and constitutes one-fifth of a student's normal program. Where departments offer fractional courses, these will be combined in reckoning a student's total credit in courses.

A student in good standing in the college will be recommended for the degree of Bachelor of Arts whenever he completes all of the following requirements, unless in the judgment of the College Board there is cause for withholding this recommendation:

1. *Residence.* Not less than three academic years of college study in residence. At least one full year and usually the last year before the degree is conferred must be spent at Clark University.
2. *Course requirements.* Twenty courses in addition to required physical training, except in the case of veterans who are eligible for benefits under Public Laws 16 or 346 as amended by Public Law 268. Such veterans will normally be graduated on the completion of nineteen courses, credit for the twentieth course being granted for military service and miscellaneous training in service.

   A satisfactory scholarship record must be maintained throughout the entire program.
3. *Physical training.* Three years of physical training, two hours per week. Veterans who have completed the basic training for any branch of military service and those who served in the Merchant Marine are excused from the requirement in physical training.
4. *Assembly.* Attendance at a weekly assembly is required.

   Requirements 3 and 4 are in addition to the course requirements as stated above.
5. A *major,* i.e. seven courses, approved by the student's major department. Four or five of these courses must be in the major department, the remaining two or three must be in subjects related to the major subject.

Of the fourteen semester grades recorded in a student's *major,* at least eleven must be C or better.

Mathematics is a requirement in the freshman year for a student who intends to major in group A, including pre-dental and pre-medical students. This course may, with the approval of the major department, be included in the seven courses constituting the major.

Elementary Greek or Latin is a requirement in the freshman year for a student who intends to major in group C, unless at least two units of one of these languages have been accepted for admission. This course may, with the approval of the major department, be included in the seven courses constituting the *major.*

6. *English.* (a) English 11, or its equivalent; a requirement in the freshman year for all candidates for the degree of Bachelor of Arts.

   (b) An additional half course in English literature, composition or public speaking.

   (c) Satisfactory proficiency in the use of English.

7. *Fine Arts or Music.* A half course chosen from the following list: Fine Arts 1, 10, 11, 13, 15; Music 12, 13, 14, 15; French 113; German 141; Greek 123; Latin 123.

8. *Foreign language.* (a) One course in foreign language, required in the freshman year.

   (b) One course in a foreign language at or beyond the level of third-year college courses in that language. This requirement may be met by the course required in the freshman year.

9. *Group A.* Two courses—either two courses in a single *field* of study, or one course in each of two fields. These courses may not be distributed between more than two *fields* of study.

   Courses in the history of the sciences are not counted toward the fulfilment of this requirement.

10. *Group B.* Two courses—either two courses in a single *field* of study, or one course in each of two fields. These courses may not be distributed between more than two *fields* of study.

GRADING AND SCHOLARSHIP

At the end of each term a final grade—in terms of A, excellent; B, good; C, average; D, poor; F, failure—is reported for each course. The modifying symbols plus (+) and minus (—) are used to indicate variations within each general classification. A report of 'incomplete'' is permitted only when severe sickness or some equally unavoidable circumstance prevents the completion of a course. Failures may not be "made up," except by repeating the course.

Courses with grades of D+, D or D— may not be counted toward a bachelor's degree beyond one-quarter of the total credit required; i.e., not more than five (5) such courses, or their equivalent in fractional courses, may be counted. If grades are not given in some of the twenty courses required for the degree, the maximum credit which may be counted with grades of D+, D or D— is reduced to one-quarter of the total credit from courses in which grades are given.

CLASSIFICATION OF STUDENTS

Students are classified as freshmen, sophomores, juniors or seniors on the basis of the amount of credit toward the bachelor's degree shown by their records at the beginning of each academic year. Such classification takes into account the quality requirements stated in the preceding section. Neither length of residence nor number of courses completed will change a student's classification unless the required quality of work has been done.

A student who, at the beginning of any term, is clearly in a position to complete the requirements for the degree before the beginning of the next term is classified a *senior*.

GENERAL HONORS

First honors and *second honors* are awarded annually to members of each class who have, in the judgment of the College Board, distinguished themselves by their scholarship during the year.

The bachelor's degree is awarded *with honor, with high honor,* and *with highest honor* to members of each graduating class whose records, in the judgment of the College Board, warrant this distinction.

DEPARTMENTAL HONORS

An "honors program," leading to the degree of Bachelor of Arts *with honors in a particular department,* may be undertaken by a member of the junior class if his cumulative scholarship average places him among the highest third of his class. This plan permits an able student in coöperation with his "honors' adviser", to organize the work of his junior and senior years into a unified program which may include a certain number of "honors courses." In these he works with a considerable measure of independence under the supervision of his "honors adviser". A maximum of two "honors courses" may be included in the program of any candidate for departmental honors.

Application for honors work should be made, in writing, to the major department not later than the first day of May of the sophomore year.

Admission to candidacy for departmental honors does not relieve a student from any of the standing regulations of the college except as specifically stated above. If a student's candidacy for honors is terminated for any reason, the amount of credit, if any, to be allowed for special "honors courses" will be determined by the College Board in consultation with the major department.

SCHOLARSHIP SOCIETY

The Clark Scholarship Society was organized in 1914. Its object is, "to maintain a high and broad conception of scholarship; to encourage devotion to scholarship, so conceived; to promote a close relation for mutual benefit between the undergraduate members and the faculty members of the society." Membership in the society is open to members of the faculty. Student members are elected at the end of the junior year. The selection is made from students with highest standing in the junior class. Nominations are made by the College Board and the undergraduate members of the society elect from the students so nominated. Additional nominations may be made at the middle and end of the senior year.

ABSENCES

Regulations applying to absences from scheduled class meetings and laboratory exercises are based upon the conviction that such absences, regardless of their cause, involve a loss to the student and a drag upon the class. Students are, accordingly, expected to be consistently regular in attendance. Subject to this general provision, students are given a considerable degree of freedom in the control of their attendance. It is expected that such freedom will not be abused, and that it will contribute to the growth of each student's sense of responsibility.

Detailed regulations in harmony with the foregoing principles are posted on the official bulletin board for the guidance of students. They are also published in the Students' Handbook, issued annually. Students are expected to familiarize themselves with these regulations.

Special regulations apply to attendance at the weekly assemblies and physical training.

EXTRA-CURRICULAR ACTIVITIES AND STUDENT LIFE

Student life at Clark is, as would be expected at a small institution, friendly and informal. Fixed rules and regulations are few, the assumption being that students will conform to the recognized standards of morality, good order, and gentlemanly conduct. College activities are, however, under sufficient faculty oversight to insure responsibility in business dealings and consideration of the welfare of the individual student and of the college community.

The Activities Fee. Athletics and several non-athletic activities are partially supported by the "activities fee." This fee admits a student, without additional charge, to all athletic contests held on the college grounds, provides him with the college newspaper and admits him to plays and concerts presented by the dramatic and musical clubs.

Activities. Students in Clark College have the opportunity to participate in intercollegiate soccer, baseball, tennis, and basketball. A competent coach has immediate supervision over the athletic teams. General supervision of the athletics program is vested in the Athletics

Board, consisting of the Director of Physical Training, the faculty Committee on Athletics, two alumni, and nine students. The Committee on Athletics has authority to revise or to veto decisions of the Athletics Board.

In addition to intercollegiate athletics, a steadily increasing intramural program gives opportunity for widespread participation in games and contests of various sorts.

Opportunities for recreation, outside of athletics, are found in dramatic clubs and musical clubs, under expert direction; in editing and publishing the college newspaper (*The Scarlet*) and the senior yearbook (*The Pasticcio*); also in such organizations as the Debating Club and International Relations Club. Gryphon, the senior honorary society, plays an important part in campus life. Non-athletic activities are under the supervision of Faculty Advisers.

Occasional teas at the Alumni Gymnasium give opportunity for informal social contacts with members of the faculty and their wives and with fellow-students. Formal "proms," informal "Bohemes" and fraternity activities furnish further opportunities for social life. For many students, the most prized opportunity for social contacts is in the offices and laboratories, where members of the faculty may be visited with ease and freedom.

Eligibility. Participation in organized extra-curricular activities is denied only when a student's scholastic record indicates that continuance in an activity might be responsible for scholastic failure. A student is "eligible" if he is enrolled in a regular program of five courses and if at the end of any half term he has (a) "passed" in all courses and been graded at least C— in one of them, or (b) "passed" in all but one course and been graded at least C— in two of them.

Any student carrying less than a full program of studies is ineligible unless his reduced program permits graduation at the end of the year in which that program is carried.

Ineligibility becomes effective the eleventh day after the beginning of a half term and continues through the tenth day of the succeeding half term.

Students admitted with advanced standing from another college are ineligible during the first half term of residence at Clark College. Such students may not participate in intercollegiate athletics during their first year of residence.

A special student is not entitled to participate in competitive activities of the college. The College Board may, however, permit such participation in the case of a special student who is enrolled for a full program (five courses). Special students may participate in non-competitive activities under special regulations established by the College Board.

The Women's College of Clark University

ADVISORY BOARD FOR THE WOMEN'S COLLEGE

Mrs. Harold D. Woodbury, *President*
Mrs. Robert K. Shaw, *Vice President*
Mrs. Paul R. Swan, *Secretary*
Miss Louisa Dresser
Mrs. George F. Booth
Mrs. Jacob Asher
Mrs. Myron F. Converse
Miss Ruth Tomlinson
Mrs. Robert W. Stoddard
Mrs. Clarence S. Arms
Mrs. Reginald Washburn
Mrs. Thomas F. Power
M. Hazel Hughes

FOR THE ALUMNAE

Miss Katherine R. Feeley
Miss Florence C. McKeon
Miss Elizabeth Rourke
Mrs. Richard Hayes

FOR THE FACULTY WOMEN'S CLUB

Mrs. Robert S. Illingworth
Mrs. J. Richard Reid
Mrs. Percy M. Roope
Mrs. John E. Bell

The Women's College of Clark University was established in the fall of 1942 for the benefit of young women who wish to attend college in Worcester.

All courses of instruction available for men are open to women. The requirements for admission and for a bachelor of arts degree are identical with those for men, and the same tuition and fees are charged. (See earlier section of this catalogue, where requirements and fees are dealt with in detail.)

Undergraduate women who do not commute from their own homes are expected to live in one of the women's dormitories. If other arrangements are desired, written request from a parent or guardian must be sent to the Dean's office and the Dean's approval must be obtained.

Suitable provision has been made for the comfort and convenience of women students while on the campus. A large room on the first floor of Jonas G. Clark Hall, attractively decorated and comfortably furnished, is used by the women as a lounge and study-room and as a center for their activities. They also have excellent gymnasium and luncheon room facilities.

The general supervision of the activities of women students is in the hands of Miss M. Hazel Hughes, director of student activities. The Women's College has an Advisory Board composed of representative Worcester women who are interested in the educational program, and who advise the administration on matters of general policy. The wives of members of the faculty coöperate with the women students in the planning and conduct of social affairs.

ATHLETICS

Women students use their own gymnasium for practice but have the use of the university gymnasium for games with outside organizations. All students are given a physical examination at the beginning of each year by a woman physician who lives in the neighborhood and is readily available for resident students.

Several types of athletics are open to women. In the fall hockey, archery and tennis are played outdoors. Tournaments are held in all sports in the spring and fall and a cup is awarded to the winner of each event. During the winter months basketball is the principal organized athletic activity.

There is also a physical fitness program, designed to improve posture and general health. Attendance at classes in physical education is required twice a week for the first two years. Training in a group sport and an individual sport is required during the junior year. Swimming and life saving courses are available through arrangements with the Young Women's Christian Association. These courses are conducted by a member of the Physical Education Staff of the University.

Students receive free tickets to all athletic events.

STUDENT ACTIVITIES

The Women's College has its own student government and class officers who direct student activities. A social committee plans parties and group meetings. The Inter-Faith Association, a small but interested group, holds regular meetings.

Women students may join many of the organizations of the men's college. They serve on *The Scarlet*—the college newspaper, *The Pasticcio*—the college yearbook, and are eligible for membership in the debating society and glee club. The women students participate in the dramatic productions, both in acting and in assisting with stage settings and costumes. The girls are represented on the "Boheme Committee" which plans the college dances and on the Student Activity Fund Committee.

INDUCTION PERIOD

The freshman class of the women's college and all women transfer students assemble at the college on Wednesday before the opening of the academic year to become acquainted and to complete various important preliminaries before the beginning of class work. If conditions warrant, the induction period is spent at some suitable place in the country, not too far from Worcester.

A fee of $5.00 is charged for the induction period.

ADMISSION AND SCHOLARSHIPS

As stated above, requirements for admission are outlined in detail in an earlier section of this catalogue. In addition to admission to the freshman class, admission to the upper classes by transfer from other colleges is possible.

For scholarship aid to women the Trustees each year make a special grant, varying in amount with the established need.

The Clark University Women's Club and the Clark University Alumnae Association each offer two scholarships. The Swedish National Federation has a scholarship awarded annually to a deserving student of Scandinavian stock from Worcester or vicinity. The Soroptimists Club of Worcester has provided a scholarship for a woman student. Other special awards have been made possible by friends of the college.

Correspondence regarding admission and requests for application blanks should be addressed to:

DEAN OF THE COLLEGE, CLARK UNIVERSITY, 950 MAIN ST.,
WORCESTER (3), MASS.

The Division of Business Administration

ORGANIZATION

ARTHUR F. LUCAS, *Director of the Division*

ADMINISTRATIVE COMMITTEE

PRESIDENT HOWARD B. JEFFERSON, *ex officio*

ARTHUR F. LUCAS, *Chairman*	GEORGE E. HARGEST
JOHN E. BELL	HOMER P. LITTLE
SAMUEL J. BRANDENBURG	RAYMOND E. MURPHY

The Division of Business Administration is an integral part of the undergraduate college of Clark University. Its administration is in the hands of the Administrative Committee.

The program in Business Administration is given coöperatively by the Departments of Economics and Sociology, English, Geography, History and International Relations and Psychology.

In 1947-48 the following members of the faculty gave courses in the program: Mr. Anderson, Mr. Bowman, Mr. Brandenburg, Mr. Breen, Mr. Cohen, Mr. Gilson, Mr. Hall, Mr. Hargest, Mr. Illingworth, Mr. Letendre, Mr. Lucas, Mr. Marble, Mr. Maxwell, Mr. Moore, Mr. Murphy, and Mr. Patton.

THE PROGRAM IN BUSINESS ADMINISTRATION

The Division of Business Administration offers a four-year program of studies designed to prepare young men and women for careers in business. Students electing this program will normally become candidates for the degree of Bachelor of Business Administration and must meet the specific requirements for this degree. Students in the Business Administration program are entitled to all privileges of the University which are open to undergraduates, including the right to elect undergraduate courses in other fields such as social studies, language, fine arts and science.

The business program is designed to provide an opportunity for the student to become acquainted with the basic characteristics of modern industry and commerce, to acquire an understanding of the general principles of business and to receive training in the techniques common to all successful business enterprises. It should assist the student in adapting himself to general business requirements and in relating his specific job to the entirety of business and industrial enterprise as well as in perfecting his skill in particular techniques.

The program consists of carefully selected courses in arts and sciences together with specialized courses of particular interest to students of business. Among the former are basic courses in English composition, mathematics, economics, psychology, and American history and government. Among the latter are courses in accounting, finance, managerial techniques, statistical methods, merchandising, and business law. Training in the analysis of administrative problems is emphasized throughout the program.

A PROGRAM FOR CANDIDATES FOR THE DEGREE OF BACHELOR OF ARTS WITH EMPHASIS ON BUSINESS ADMINISTRATION

In addition to the program leading to the degree of Bachelor of Business Administration, the College offers a less intensive program in Business Administration for candidates for the degree of Bachelor of Arts. Students taking this program should major in the Department of Economics and Sociology. They must meet all the requirements for the degree of Bachelor of Arts including those in English, fine arts, foreign languages and sciences. First year students should take the normal college program for freshmen and should elect Economics 12 for the Group B requirement. The program for the second year should include Business Administration 18 and 117 and Economics 11. In the third and fourth years students should elect at least two basic courses in economics, such as Economics 13, 22 or 26, and at least four courses in business administration. The following are recommended: Business Administration 16, 124, 20, and 127.

Students should note that the following courses may not be counted for credit toward the degree of Bachelor of Arts: Business Administration 11a, 13b, 14b, 17, 128, 181a, 182b, 23a, 23b, 227, 237.

ADMISSION

Applicants for admission to the freshman class in the Business Administration program are accepted on the same basis as other applicants for admission to the college, except that the secondary school units presented for admission may be distributed as follows:

Required subjects	8 units	*Elective subjects*	7 units
English	3 units	(of which as many as 3 units may be in commercial subjects)	
Mathematics (algebra)	1 unit		
Foreign Language (one language)	2 units	Total	15 units
Social studies	2 units		

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

The Freshman Program

A uniform program is normally required of all freshmen. It includes the following courses:

First Semester		*Second Semester*	
Eng. 11a	Composition	B.A. 14b	Business English
Econ. 12	Industrial and Commercial History	Econ. 12	Industrial and Commercial History
B.A. 11a	Fundamentals of Business	B.A. 13b	Business Mathematics
B.A. 117	Principles of Accounting	B.A. 117	Principles of Accounting
	An elective		An elective
	Physical Training		Physical Training

Additional Course Requirements

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

B.A. 16	Business Statistics
B.A. 17a	Public Speaking
B.A. 18	Business Organization and Finance
B.A. 20	Business Law
Econ. 11	Principles of Economics
Econ. 13	Money and Banking*
Hist. 12	American Government or Hist. 17 American History

Areas of Concentration

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration must submit to his faculty adviser an integrated program of studies covering the junior and senior years. A proposed program should indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program will be approved that does not include in addition to the required courses named above, at least five courses in Business Administration or closely related subjects. Typical of these integrated programs are the following:

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*Under special conditions Economics 13 may be replaced by certain other courses in Economics.

Accounting
- Intermediate Accounting
- Cost Accounting
- Auditing
- Advanced Accounting
- Industrial Management
- Office Management

Foreign Trade
- Marketing
- Foreign Trade
- Economic Geography
- Industrial Psychology
- A foreign language

Management
- Intermediate Accounting
- Cost Accounting
- Marketing
- Industrial Management
- Office Management
- Psychology

Merchandising
- Marketing
- Selling
- Advertising
- Foreign Trade
- Office Management
- Psychology

Personnel Management
- Industrial Psychology
- Tests and Measurements
- Personnel Management
- Industrial Management
- Office Management
- Labor Problems

Statistics
- Business Statistics
- Mathematics of Statistics
- Business Cycles
- Cost Accounting
- Industrial Management
- Office Management

GENERAL UNIVERSITY REQUIREMENTS

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except in so far as these are modified by the special requirements of the business program.

COURSES IN BUSINESS ADMINISTRATION

Courses in Business Administration which are to be offered in 1948-49 will be found listed with descriptions under "Business Administration" in the list of Departments and Courses of Instruction.

DEPARTMENTS AND COURSES OF INSTRUCTION

- BIOLOGY
- BUSINESS ADMINISTRATION
- CHEMISTRY
- CLASSICS
- ECONOMICS AND SOCIOLOGY
- EDUCATION
- ENGLISH
- FINE ARTS
- FRENCH
- GEOGRAPHY
- GEOLOGY
- GERMAN
- HEALTH EDUCATION FOR UNDERGRADUATE WOMEN
- HISTORY AND INTERNATIONAL RELATIONS
- MATHEMATICS
- PHILOSOPHY
- PHYSICS
- PSYCHOLOGY AND EDUCATION
- ROMANCE LANGUAGES
- SOCIOLOGY
- SPANISH

Departments and Courses of Instruction

Departments, and in some cases important subdivisions of departments, are listed alphabetically in the following pages.

Departmental announcements precede the lists of courses which are offered by the departments. These announcements contain important general information, as well as departmental regulations concerning graduate work and statements of the requirements for undergraduate majors.

Courses are, in general, arranged in sequence under each heading so as to progress from the more elementary to the more advanced. Each course is described as it has been given during the current academic year unless an accompanying note states otherwise. Notice is given in all cases where a department plans to alter the content of the course, or to omit it. If a course is not currently given but will be offered at a later date this fact is stated.

The unit of instruction for undergraduates is a "course." A course normally meets for classroom or laboratory exercises three or four times weekly throughout the regular academic year (September to May) and constitutes one-fifth of the normal program for an undergraduate.

Each unit of undergraduate instruction as listed below yields credit for one half-course in each semester unless its value as a fractional course or a multiple course is indicated.

Advanced courses, not primarily for undergraduates, are announced with a statement of the number of weekly meetings.

Fractional credit is given for the satisfactory completion of one semester of work in any course unless the course is designated as "indivisible."

With the consent of the instructor, a course may be entered at the beginning of either semester.

Courses are classified under three headings as follows:

1. PRIMARILY FOR UNDERGRADUATES, designated by numbers beginning with the figure (1).

2. For Advanced Undergraduates and Graduate Students, designated by numbers beginning with the figure (2).

3. Primarily for Graduate Students, designated by numbers beginning with the figure (3).

DEPARTMENT OF BIOLOGY

Professor Potter, Associate Professor Nunnemacher
Assistant Professor Howard

The biological laboratories are well equipped for the courses offered and contain special equipment for advanced investigations. Funds are available annually for the purchase and building of apparatus which may be required. The university library contains complete files of the more important periodicals and reference works. The department maintains an herbarium of over 40,000 sheets. Certain assistantships, fellowships and scholarships are available from time to time.

UNDERGRADUATE WORK

Biology 11 presents a comprehensive view which is prerequisite to all other courses in the department, except Biology 19a.

An undergraduate majoring in biology must complete Biology 11 and three advanced courses in biology, Chemistry 11, Physics 11, Mathematics 10 or 11, and at least one additional course in chemistry, physics or geology.

A candidate for honors in biology must also take Biology 11, 12, 14 and 200 (240 in 1948-49 and thereafter).

Courses in related fields include all courses in group A, Psychology 203 and Geography 12.

THE PRE-MEDICAL PROGRAM

Clark University is justly proud of its pre-medical training program. Not only do our students have little difficulty in entering the best medical schools, but they also rank in the upper half of their medical school classes and become respected and outstanding physicians.

The student entering upon the pre-medical program must be prepared to compete with other college students of above-average ability; he must be of good health and capable of sustained hard work; he must like and get along well with all kinds of people and he must have a real desire to help the sick and advance the science of medicine. The pre-medical student must be prepared to undertake a program of intensive study which usually takes eight years before the medical degree can be obtained. During this time the large amount of class and laboratory work reduces considerably the opportunities for earning money through outside work and the student should not jeopardize his chances by worrying over his financial commitments. Scholarships are available and needy students should apply for them.

While the requirements for the Bachelor of Arts degree assure each graduate of a certain familiarity with several fields of learning, the pre-medical student should take as many non-science courses as possible to round out his general education, because medical schools leave no time for courses outside of their technical field. Courses in psychology and the study of human relations will be of particular benefit.

The field of medicine is open equally to men and women.

The following schedules are recommended for pre-medical students with a major in biology. Schedule A places the emphasis on biology; Schedule B places the emphasis on chemistry.

Schedule A	*Schedule B*
First year	First year
English	English
Foreign Language	Foreign Language
Mathematics	Mathematics
General Biology	General Chemistry
Group B (one course)	Group B (one course)
Second year	Second year
Biology 12	Chemistry 12a and 14b
General Chemistry	General Biology
Foreign Language	Foreign Language
Group B (one course)	Mathematics 12
½ course in English and ½ course Fine Arts	½ course in English and ½ course Fine Arts

Third year
- Biology 16, 17, 18 (Any two)
- Chemistry 12a and 14b
- Physics 11
- Two electives

Fourth year
- Biology (Physiology)
- Chemistry 15
- Three electives

Third year
- Chemistry 15
- Biology 12
- Physics 11
- Group B (one course)
- ½ course (elective)

Fourth year
- Chemistry 19
- Biology (advanced)
- Three electives

GRADUATE WORK

Students whose records are approved by the department may be admitted by the Graduate Board for work leading to the degree of Master of Arts.

COURSES IN BIOLOGY

During the academic year 1947-1948 the following courses were given: 11, 12, 13, 14, 16, 18, 102, 144, 200, 203, 204, 205, 206, 210, 218, 219.

1. PRIMARILY FOR UNDERGRADUATES

11. General Biology. An introduction to the fundamental principles and problems of biology.

Divisible course upon approval by the department.

Open to freshmen.

Through the year. M. W. F. 9; M., 2.

Mr. Potter and Mr. Nunnemacher

12. Comparative Anatomy. A study of the morphology of the vertebrates from a comparative standpoint which traces the evolution of animals from fish to mammals.

Lectures and laboratory work.

Through the year. W. F., 10; Tu. F., 2. Mr. Nunnemacher

13. Seminar in General Biology. Credit is not given for this course. All students in the department are invited to attend and to participate. Staff of the Department

14. Botany. First semester, morphology and taxonomy of the lower plants. Special emphasis is given to the algae and fungi.

Second semester, systematic botany of the higher plants with special emphasis on our local flora. A collection of one hundred plants is required, also a spring field trip of at least three days' duration.

Either semester of the course may be elected separately.

Prerequisite: Biology 11, first semester.

Through the year. Tu. Th. S., 11; Th., 2. MR. POTTER

15. INVERTEBRATE ZOOLOGY.

Omitted, 1947-48.

16a. (To be 220 in 1948-49.) HISTOLOGY. A comprehensive course dealing with tissue structure. Emphasis is placed on the study of mammalian tissues.

Half course. First semester. MR. NUNNEMACHER

17b. (To be 221 in 1948-49.) EMBRYOLOGY. A consideration of the fundamentals of embryology. Two lectures and two laboratory periods per week.

Half course. Second semester. M. W. F., 8. MR. NUNNEMACHER

Omitted, 1947-48.

18a. (To be 200 in 1948-49.) GENETICS. An introduction to the principles of genetics.

Half course. First semester. M. W. F., 11. MR. POTTER

19a. HUMAN ANATOMY AND PHYSIOLOGY. An introductory semester course. Does not require Biology 11 as a prerequisite but requires Biology 11 to be counted towards the Div. A requirement. May not be counted toward the fulfillment of the requirement for a major in Biology. Three lectures per week.

First semester. MR. NUNNEMACHER

Omitted, 1947-48.

144b. (To be 204 in 1948-49.) BACTERIOLOGY. An introduction to the study of bacteriology.

Half course. Second semester. MR. HOWARD

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200. (To be 240 in 1948-49.) General Physiology. Open to students who satisfy their instructor as to their preparation. The principal types of functioning characteristic of living organisms are considered in the light of their physiochemical determinants.

Through the year. Tu. Th., 11; and two laboratory periods per week. Mr. Howard

202. Economic Botany.

Omitted, 1947-48.

203. (To be 260 in 1948-49.) Special Problems. Advanced semi-independent study of an approved topic under the direction of a member of the staff.

Hours and credit to be arranged. Staff of the Department

205. Advanced Genetics.

Three lectures per week.

Half course. Second semester. Mr. Potter

206. (To be 201 in 1948-49.) Advanced Systematic Botany.

Through the year. Three laboratory periods and one lecture per week. Either semester may be taken separately. Mr. Potter

210b. (To be 224 in 1948-49.) Neuro-anatomy.

Three lectures per week.

Half course. Second semester. Mr. Nunnemacher

211b. (To be 241 in 1948-49.) Endocrinology. A study of the ductless glands and their relation to behavior.

Half course. Second semester.

Omitted, 1947-48.

216. (To be 261 in 1948-49.) Microtechnique. During the first semester emphasis is placed on the preparation of animal tissues for microscopic study. The second semester is concerned with the preparation of botanical sections.

Omitted, 1947-48.

204a Biochemistry Mr. Howard

Three hrs., first semester. 11 M W F
(One half course)

219. ENTOMOLOGY. Fundamentals of Insect Life.
Three lectures and one laboratory period per week.
Half course. Second semester. MR. POTTER

223. PARASITOLOGY. An introduction to the parasitic mode of life of the protozoa, helminthes, and arthropoda and their relation to mankind. MR. POTTER AND MR. NUNNEMACHER
Omitted, 1947-48.

3. PRIMARILY FOR GRADUATE STUDENTS

308. (To be 340 in 1948-49.) RESEARCH IN PHYSIOLOGY.
Credit to be arranged. MR. HOWARD

309. (To be 300 in 1948-49.) RESEARCH IN BOTANY.
Credit to be arranged. MR. POTTER

310. (To be 320 in 1948-49.) RESEARCH IN ZOOLOGY.
Credit to be arranged. MR. NUNNEMACHER

COURSES IN BUSINESS ADMINISTRATION

A description of the program in Business Administration and a statement of the requirements for the degree of Bachelor of Business Administration will be found under the general heading "Undergraduate Section" and the special heading "The Division of Business Administration."

The courses in Business Administration and related subjects which follow are grouped under the headings: Accounting, Economics, English, Geography, History, Law, Management, Mathematics, Merchandising and Statistics.

Because of the number of these subdivisions the headings,

1. Primarily for undergraduates
2. For advanced undergraduates and graduate students

have been omitted.

Reference to the following synopsis will facilitate the location of particular courses when their numerical designations are given.

COURSES IN BUSINESS ADMINISTRATION

Number	*Title*	*Heading Under Which the Course Is Listed*
11	Fundamentals of Business	Management
13	Business Mathematics	Mathematics
14	Business English	English and Public Speaking
16	Business Statistics	Statistics
17	Public Speaking	English and Public Speaking
18	Business Organization and Finance	Management
112	Introduction to Personnel Management	Management
117	Principles of Accounting	Accounting
124	Principles of Marketing	Merchandising
127	Intermediate Accounting	Accounting
128	Cost Accounting	Accounting
181	Industrial Management	Management
182	Office Management	Management
20	Business Law	Law
23	Advertising and Salesmanship	Merchandising
27	International Trade and Finance	Merchandising
227	Auditing	Accounting
237	Advanced Accounting	Accounting

In 1947-48 the following courses were given: 11, 13, 14, 16, 17, 18, 112, 117, 124, 127, 128; 20, 23, 27, 227, 237.

ACCOUNTING

BUSINESS ADMINISTRATION 117. PRINCIPLES OF ACCOUNTING. The organization and use of financial records, with emphasis on their interpretation as well as on the techniques of procedure.

Indivisible course.

Required of freshmen in the Business Administration program.

Through the year. Tu. Th., 8; Tu., 2 and Tu. Th., 9; Th., 2.

MR. BOWMAN

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING. A study of the difficulties encountered in actual accounting practice, and the theoretical considerations that govern in distinguishing sound from unsound policies in the determination of valuations, reserves, classification of profit-and-loss items, and allocation between accounting periods, etc.

This course may be entered at beginning of the second semester, but credit will not be given until both semesters have been completed.

Indivisible course.

Through the year. Tu. Th. S., 11. MR. HARGEST

BUSINESS ADMINISTRATION 128. COST ACCOUNTING. A study of cost-finding systems, with special reference to basic principles in accounting for materials, labor and burden. Emphasis is placed upon the use of forms and special books and the preparation of appropriate statements.

Indivisible course.

Through the year. Tu. Th. S., 8. MR. HARGEST

BUSINESS ADMINISTRATION 227a. AUDITING. After a careful analysis of the purpose and scope of the several classes of audits, the course deals with (1) methods of handling engagements, (2) audit procedure, (3) detection of errors and fraud, (4) study, analysis and preparation of certificates and reports.

Half course. First semester. Tu. Th. S., 9. MR. HARGEST

BUSINESS ADMINISTRATION 237. ADVANCED ACCOUNTING. The theory and practice of accounting for branches, mergers, receiverships, estates and trusts, consolidated statements, budgets, municipal accounts and other topics of an advanced nature.

Through the year. Tu. Th. S., 10. MR. HARGEST

ECONOMICS

(See also announcement of the Department of Economics and Sociology.)

ECONOMICS 11. PRINCIPLES OF ECONOMICS. Required for the degree of Bachelor of Business Administration.

ECONOMICS 12. INDUSTRIAL AND COMMERCIAL HISTORY. Required of freshmen in the Business Administration program.

ECONOMICS 13. MONEY AND BANKING. Required for the degree of Bachelor of Business Administration.

ECONOMICS 15. PUBLIC FINANCE.

ECONOMICS 21b. BUSINESS CYCLES.

ECONOMICS 22. LABOR PROBLEMS.

ECONOMICS 25. PROBLEMS IN PUBLIC FINANCE.

ECONOMICS 26. GOVERNMENT AND INDUSTRY.

ENGLISH AND PUBLIC SPEAKING

ENGLISH 11. COMPOSITION AND LITERATURE. The first semester is required of freshmen in the Business Administration program.

BUSINESS ADMINISTRATION 14b. BUSINESS ENGLISH. A course in English composition designed to train the student in the preparation of reports, letters, etc., used in business.

Required of freshmen in the Business Administration program.

Half course. Second semester. M. W. F., 10; Tu. Th. S., 11.

MR. LETENDRE AND MR. MOORE

BUSINESS ADMINISTRATION 17a. PUBLIC SPEAKING. A course in the fundamentals of public speaking including the more common speech situations such as speech of introduction, address of welcome, expository and impromptu speeches; problems in human relations; voice tests, vocabulary drill.

Required for the degree of Bachelor of Business Administration.

Half course. First semester. M. W. F., 11. MR. ILLINGWORTH

BUSINESS ADMINISTRATION 17b. PUBLIC SPEAKING. Parliamentary procedure, open forum, panel discussion, committee meetings, reports, extemporaneous speaking.

Prerequisite: Business Administration 17a.

Half course. Second semester. M. W. F., 11. MR. ILLINGWORTH

GEOGRAPHY

GEOGRAPHY 10. PRINCIPLES OF GEOGRAPHY.

GEOGRAPHY 16. ECONOMIC GEOGRAPHY.

HISTORY AND GOVERNMENT

HISTORY 12. AMERICAN GOVERNMENT.

HISTORY 17. INTRODUCTION TO UNITED STATES HISTORY.

One of the above courses is required for the degree of Bachelor of Business Administration.

LAW

BUSINESS ADMINISTRATION 20. BUSINESS LAW. A study of the legal basis of business and the principles of statutory and common law as they affect business relationships; covering such subjects as contracts, property, sales, negotiable instruments, agency, and forms of business organization.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 8. MR. BREEN

MANAGEMENT

BUSINESS ADMINISTRATION 11a. FUNDAMENTALS OF BUSINESS. An orientation course designed to acquaint the student with the general characteristics and problems of American business; field trips to significant business concerns are arranged when feasible.

Required of freshmen in the Business Administration program.

Half course. First semester. Tu. Th. S., 8 and 9. MR. BOWMAN

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE. A unified year course in the financial structure of modern industry with emphasis on the nature of the business corporation, its financial practices, types of securities, capital structure, financial reorganization, and the problems of internal financial control.

Indivisible course.

Required for the degree of Bachelor of Business Administration.

Through the year. M. W. F., 9. MR. LUCAS

BUSINESS ADMINISTRATION 112. INTRODUCTION TO PERSONNEL MANAGEMENT. A survey of policies and practices in selection, training, promotion and transfer, wage payment, grievances of employees in industry and group relations in recreation, welfare plans, morale and collective bargaining.

Through the year. M. W., 2 - 3:15. MR. GILSON

BUSINESS ADMINISTRATION 181a. INDUSTRIAL MANAGEMENT. A study of the techniques of executive control and the measures of managerial efficiency pertaining particularly to production control, standardization of operations, purchasing, inventories, selling and budgeting.

Half course. First semester. MR. HARGEST

Omitted, 1947-48.

BUSINESS ADMINISTRATION 182b. OFFICE MANAGEMENT. A survey of the principles of office procedure and management with special emphasis upon office organization and planning, departmental organization, standardization of equipment and methods, office forms, office costs and budget, and correspondence.

Half course. Second semester. MR. HARGEST
Omitted, 1947-48.

MATHEMATICS

BUSINESS ADMINISTRATION 13b. BUSINESS MATHEMATICS. An elementary course designed to give the necessary foundation for an understanding of the basic mathematical processes involved in business transactions.

Required of freshmen in the Business Administration program.
Half course. Second semester. Tu. Th. S., 10 and M. W. F., 11.
MR. PATTON

MATHEMATICS 10 OR 11. FRESHMAN MATHEMATICS.

MERCHANDISING

BUSINESS ADMINISTRATION 124b. PRINCIPLES OF MARKETING. An introductory survey of the economics of marketing including the mechanics of distribution, the characteristics of the marketing system, principles of merchandising; and the chief problems of marketing.

Half course. Second semester. Tu. Th. S., 10. MR. BOWMAN

BUSINESS ADMINISTRATION 23a. ADVERTISING. An analysis of the role of advertising in modern business and a study of advertising procedures with emphasis on the economic functions of advertising, market research, campaign planning, advertising media, preparation of copy, visualization, and layouts.

Half course. First semester. Tu. Th. S., 11. MR. BOWMAN

BUSINESS ADMINISTRATION 23b. SALESMANSHIP. A study of the basic principles of selling and of their application to problems of merchandising; the history of salesmanship, classification of the market, consumer motivation, and the techniques of selling.

Half course. Second semester. Tu. Th. S., 11. MR. BOWMAN

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE. A study of the nature, theoretical basis, methods of financing and government control of the international movement of goods.

Half course. First semester. Tu. Th. S., 9. MR. HALL

PSYCHOLOGY

PSYCHOLOGY 11. GENERAL PSYCHOLOGY.

PSYCHOLOGY 190. INDUSTRIAL PSYCHOLOGY.

PSYCHOLOGY 214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS.

STATISTICS

BUSINESS ADMINISTRATION 16. BUSINESS STATISTICS. An introduction to statistical methods designed to acquaint the student with the elementary methods of statistics as applied to business and economic problems. Consideration is given to collection of statistical data; sources of data; presentation of facts by means of tables and graphic charts; the frequency distribution; measures of central tendency, dispersion and skewness; fitting the normal curve and goodness of fit; testing statistical results based upon samples-reliability; analysis of time series involving measurement of secular trend, seasonal and cyclical movements; construction of index numbers; correlation and the standard error of estimate; correlation of time series.

Required for the degree of Bachelor of Business Administration.

Indivisible course.

Through the year. M. W., 12; F., 12:30 - 2:30. MR. PATTON

DEPARTMENT OF CHEMISTRY

Professor Bullock, Associate Professor Martel, Associate Professor MacGillavry, Mr. Martin

Courses in chemistry fall into two groups:

First, those primarily for undergraduates. These furnish a foundation for professional work in chemistry or medicine, and are suitable for students desiring some knowledge of the subject as part of their general education.

Second, those primarily for graduate students.

UNDERGRADUATE WORK

Students who intend to become professional chemists or to study for an advanced degree in chemistry should *major* in chemistry and take at least two years' work in physics.

They are advised to conform as closely as possible to the schedule given below.

First year: Chemistry 11; Mathematics 10 or 11; English 11; one course in "group B" and foreign language.

Second year: Chemistry 12a, 13, 14b; Physics 11; Mathematics 12 or Physics 12, and a continuation of work in foreign language.

Third year: Chemistry 15, 16a and 19; and electives.

Fourth year: Five courses, chosen from the following: Chemistry 112b, 116, 212b, 214b, 215; Physics 14 and 15; an elective. A choice, with reference to future work, should be made after consultation with the chemistry staff.

Chemistry 19, required of all chemistry majors, is essential for work in physiology. Two years of mathematics are required preparation for Chemistry 19 and for graduate work in chemistry. The same amount of mathematics is required for all who elect chemistry as a "major," and for all who expect to become professional chemists.

For professional work in chemistry, at least one year of graduate study is highly desirable.

Students who intend to enter the field of secondary education should acquaint themselves with the requirements in "education" of state and local licensing boards and prepare to meet these requirements. This may necessitate the omission of certain courses in chemistry scheduled for the third and fourth years.

Students who intend to study medicine should elect course 11, 12a, and 15 which are required for admission to practically all "class A" medical schools. Courses 13 and 14b are strongly recommended if time allows.

Attention is called to laboratory fees and breakage deposits listed under the general heading "Laboratary Fees and Deposits."

GRADUATE WORK

The Department of Chemistry offers advanced courses in the fundamental principles of physical, organic, inorganic and analytical chemistry, and these are supplemented by specialized courses and research work in physical and organic chemistry. Besides a successful completion of the fundamental courses offered in the graduate school, candidates for both degrees must show facility in conducting a laboratory investigation and a command of the subject which is chosen for the thesis or dissertation.

All graduate students are required to have an adequate reading knowledge of French and German. This requirement applies to candidates for either the master's degree or the doctor's degree.

Students registered for advanced degrees are expected to spend not less than eighteen hours per week in the laboratory. This may include special laboratory work in organic, inorganic, and physical chemistry.

Graduate scholarships and fellowships are available to students in this department. Further information may be obtained from the chairman of the department.

COURSES IN CHEMISTRY

During the academic year 1947-48 the following courses were given: 11, 12a, 13, 14b, 15, 16, 19, 110, 112b, 214b, 215, 216a; 33, 35, 321, 322.

In 1948-49 the following courses will be offered: 11, 12a, 13, 14b, 15, 16a, 19, 112b, 212b, 214b, 215, 216a, 31, 33, 34, 35, 37, 38, 315.

1. PRIMARILY FOR UNDERGRADUATES

11. General Chemistry. Systematic study of the elements and their principal compounds and the fundamental laws and theories of chemistry. Three lectures and three hours of laboratory work per week.

Prerequisite for Chemistry 12, 13 and 14.

Divisible only by consent of instructor.

Through the year. M. W. F., 11; M., 2 or Th. 2. Mr. Bullock

12a. Qualitative Analysis. Chiefly laboratory work, nine hours per week. Occasional lectures and recitations.

Prerequisite: course 11.

Half course. First semester. Tu. F., 2. Mr. Martin

13. Chemical Principles and Calculations. A study of the use of chemical principles in working out problems, including the study of gases, solutions, thermochemistry and homogeneous equilibrium.

Prerequisites: Chemistry 11 and 12.

Through the year. M. W. F., 9. Mr. Martin

14b. Volumetric Analysis. Required for a major in chemistry.

Half course. Second semester. Tu. Th., 2. Mr. MacGillavry

15. Organic Chemistry. Lectures on the principles of organic chemistry and a laboratory study of the preparation and properties of important organic compounds. Three lectures and three hours of laboratory per week.

Prerequisite: a grade of C—, or better, in Chemistry 11, and Chemistry 12a.

Through the year. M. W. F., 9; F., 2. Mr. Martell

16a. Gravimetric Analysis. Required for a major in chemistry.

Half course. First semester. Tu. Th., 2. Mr. MacGillavry

19. PHYSICAL CHEMISTRY. Principles of physical chemistry including atomic and molecular structure, gases, liquids, solutions, crystalline solids, chemical thermodynamics, homogeneous and heterogeneous equilibria, electrolytic conductance, electrode potentials, electrolysis and polarization, reaction kinetics, colloids.

Three hours of lectures and four hours of laboratory per week.

Required for a major in chemistry.

Prerequisites: Chemistry 13b, 14, Mathematics 12, Physics 11.

Through the year. Tu. Th., 10; Tu. F., 2. MR. MACGILLAVRY

112b. PHYSICO-CHEMICAL METHODS. An advanced laboratory course in physical chemistry.

Open to students who have taken or are taking Chemistry 19.

One lecture and six hours of laboratory work per week.

Half course. Second semester. MR. MACGILLAVRY

Omitted, 1947-48.

116. ADVANCED ORGANIC CHEMISTRY. Electron theory of molecular structure, reaction mechanisms, natural products and other advanced topics in organic chemistry. Laboratory work includes qualitative and quantitative organic analysis, and special problems in synthesis.

Prerequisites: Chemistry 15, 14b, and 16a.

Two lectures and 6 hours of laboratory work per week.

Through the year. M. W., 12; T. F., 2. MR. MARTELL

To be offered in 1948-49, replacing Chemistry 216a.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

212b. HISTORY OF CHEMISTRY. Outline of the historical development of the science, and the relation of chemistry to other sciences at various periods of development. Lectures, collateral reading, reports and thesis.

Open to graduate students and seniors who take or have taken Chemistry 15 and 19 or equivalent courses.

Half course. Second semester. Hours to be arranged.

Omitted, 1947-48. MR. MARTELL

214b. ADVANCED QUANTITATIVE ANALYSIS (including gas analysis). Lectures and laboratory work, nine hours of laboratory work per week.

Half course. Second semester. Tu. Th., 2. MR. BULLOCK

215. HONORS COURSE. Primarily for candidates for "honors in chemistry." STAFF OF THE DEPARTMENT

216a. INORGANIC AND ORGANIC SYNTHESIS. Preparation of pure materials. Chiefly laboratory work.

Half course. First semester. MR. MARTELL

To be replaced in 1948-49 by Chemistry 116.

3. PRIMARILY FOR GRADUATE STUDENTS

31. CHEMICAL STRUCTURE AND REACTION MECHANISMS. Lectures on the structure and properties of chemical substances from the viewpoint of resonance and electronic structure.

Three hours, through the year. MR. MARTELL

321. ADVANCED PHYSICAL CHEMISTRY. Lectures on the properties of real gases, crystalline solids, liquids, solutions of molecular compounds and strong electrolytes, in relation to chemical constitution. Homogeneous and heterogeneous equilibria, reaction kinetics, electrode potentials and processes, electrolytic conductance, surface phenomena—atomic structure.

Three hours, through the year. MR. MACGILLAVRY

322a. ELEMENTARY QUANTUM MECHANICS. Lectures on the principles of quantum and wave mechanics, with applications to electronic theory and interpretation of spectroscopic data.

Three hours. First semester. MR. MARTELL

NOTE: Course 322a and course 322b together constitute a full year course.

322b. CHEMICAL THERMODYNAMICS. Lecture on the principles of classical and statistical thermodynamics, with applications to a wide variety of chemical phenomena.

Three hours. Second semester. MR. MARTELL

33. ADVANCED ORGANIC CHEMISTRY. Lectures on selected subjects in organic chemistry.

Two hours, through the year. MR. BULLOCK

34. ADVANCED INORGANIC CHEMISTRY. Lectures on selected topics in inorganic chemistry.

Two hours, through the year. MR. MARTIN

35. SEMINAR. Staff and graduate students. Reports on research work being carried on in the laboratory and reports and discussions of recently published work in related fields.

Once a week, through the year. W., 4.

STAFF OF THE DEPARTMENT

36. PRINCIPLES OF ANALYTICAL CHEMISTRY. Lectures on the theoretical basis of analytical chemistry.

Two hours, through the year. MR. MARTIN

37a. SURFACE AND COLLOID CHEMISTRY. Lectures on colloidal phenomena and on physical chemical properties and effects of surfaces.

Three hours. First semester.

Omitted, 1947-48.

37b. HIGH POLYMERS. Lectures on selected topics of the physical chemistry of high molecular and colloidal materials.

Three hours. Second semester.

Omitted, 1947-48.

38. CURRENT TOPICS IN CHEMICAL LITERATURE. Required of all students who have completed a year of graduate work.

Hours to be arranged. THE STAFF

315. RESEARCH. THE STAFF

DEPARTMENT OF CLASSICS

ASSISTANT PROFESSOR BARLOW

The Department of Classics provides undergraduate courses for the acquisition of a reading knowledge of Greek and Latin and for the study of Greek and Latin literary masterpieces in their original form. In addition to the courses requiring knowledge of an ancient language, there are others given entirely in English, which deal with all phases of the Greek and Roman civilizations.

Since it may not be possible to offer courses in elementary Latin and Greek every year, students who desire to elect them should consult the instructor as far in advance as possible. Courses of a more advanced nature than those listed may be offered as occasion demands.

PRIMARILY FOR UNDERGRADUATES

GREEK

11. ELEMENTARY. Study of Greek grammar through forms syntax, vocabulary, and reading; selections from Xenophon's Anabasis. Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 9. MR. BARLOW

12. PLATO, APOLOGY AND CRITO; HOMER, ILIAD. Prerequisite: Greek 11 or equivalent.

Open to freshmen.

Through the year. To be offered in 1948-49.

Given in English

123a. GREEK CIVILIZATION. Lectures and readings on the history, literature, philosophy, art, religion, and government of Greece, with emphasis on the elements which have contributed most to Western civilization.

Greek 123 may be counted in fulfillment of the general requirement in art, music, and literature, but not in fulfillment of the requirement in foreign language.

Open to freshmen, subject to the approval of the instructor.

Half course. First semester. Tu. Th. S., 11. MR. BARLOW

LATIN

11. ELEMENTARY. Introduction to the Latin language through study of forms, syntax, and vocabulary, with emphasis on the Latin element in English words. Reading of selections from Latin prose. Indivisible course.

Open to freshmen.

Through the year. M. W. F., 9. MR. BARLOW

12. CICERO'S LETTERS AND ORATIONS; VERGIL, AENEID. Prerequisite: Latin 11, or two years of Latin for admission.

Open to freshmen.

Through the year. To be offered in 1948-49.

13. SELECTIONS FROM HORACE AND CATULLUS; COMEDIES OF PLAUTUS AND TERENCE. The work of the course may begin with easy prose selections, to satisfy the lack of uniformity in preparation in secondary schools.

Prerequisite: Latin 12, or three or four years of Latin for admission.

Open to freshmen.

Through the year. M. W. F., 11. MR. BARLOW

Given in English

123b. ROMAN CIVILIZATION. Lectures and readings on the history, literature, philosophy, art, religion, law, and government of ancient Rome, with emphasis on the transmission of Greek civilization, on the developments which have contributed to Western civilization, and on the condition of the Roman Empire during the early years of the development of Christianity.

Latin 123 may be counted in fulfillment of the general requirement in art, music, and literature, but not in fulfillment of the requirement in foreign language.

Open to freshmen, subject to approval of the instructor.

Half course. Second semester. Tu. Th. S., 11. MR. BARLOW

DEPARTMENT OF ECONOMICS AND SOCIOLOGY

PROFESSOR BRANDENBURG, PROFESSOR MAXWELL, PROFESSOR LUCAS, ASSOCIATE PROFESSOR HALL, ASSOCIATE PROFESSOR KILLIAN, ASSISTANT PROFESSOR HARGEST, ASSISTANT PROFESSOR BOWMAN, VISITING LECTURER BREEN

The first aim of the department, in its undergraduate courses, is to give the student a comprehensive grasp of the underlying principles and functions of our economic and social institutions, and to develop habits of systematic and unbiased thought about these institutions. Some of the courses, however, contribute to the student's preparation for a business or professional career (Economics 13, 15a, 22, 26, etc.) and are specifically recommended to students who are candidates for the degree of Bachelor of Business Administration. Conversely, some students majoring in economics may be advised to elect certain courses in Business Administration which are credited toward the degree of Bachelor of Arts (Business Administration 16a, 112b, 117, 18, 124, 127, 20, 27a).

Economics 11 is a prerequisite to all other courses in economics except Economics 12, and is required of all majors in the department. Similarly Sociology 11 is a prerequisite to other courses in Sociology. Courses taken outside the department in partial fulfillment of the major requirement should be selected, subject to departmental approval, so as to provide a unified program centering about the student's major interest.

Candidates for departmental honors will engage in a program of independent study consisting of reading and research designed in part to give them specialized training in the fields of their major interest and in part to supplement formal courses. Ordinarily a student will not begin his independent study until the second semester of the junior year, nor will he undertake the equivalent of more than two courses in this manner.

Courses in sociology will be found listed, with descriptions, immediately after the list of courses in economics.

In making elections, students should bear in mind that some advanced courses are offered only in alternating years.

GRADUATE WORK

Students expecting to enter upon graduate work should have mastered creditably basic courses in economics equivalent to at least four courses, including Economics 11; those whose preparation is inadequate should expect to remove the deficiency before proceeding to study for a higher degree.

A range of courses sufficient for the needs of candidates for the doctorate is offered in cycles of two or three years. Individual work, with instructors and in small intimate seminars, constitutes a goodly part of the graduate student's program. The classification of courses as undergraduate, intermediate, and graduate is necessarily an elastic one. Graduate students electing courses in the undergraduate category will be required to do additional work.

Fellowships, scholarships, assistantships, and other aids are available to a limited number of worthy students.

Attention is directed to closely allied courses offered in geography, history and international relations, and psychology.

Courses in Economics

During the academic year 1947-48 the following courses were given: Economics 11, 12, 13, 15a, 21b, 22, 25b, 26, 27b, 28, 29a, 205, 210a, 211b.

Descriptions of courses listed below under the designation "Business Administration" will be found in the announcement of "Courses in Business Administration".

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Economics. An introduction to the fundamental economic principles, together with a study of the practical application of these principles to the problems of American life.

Indivisible course.

Through the year. M. W. F., 10 and 11. Mr. Lucas

To be offered in the Summer Term, 1948.

12. Industrial and Economic History.

First Semester. A study of west European industry and commerce since about 1700, emphasizing developments in Britain, France, and Germany.

Second Semester. Industrial and commercial history of the United States. The period prior to 1860 is studied briefly. Chief attention centers on the rise of the country as an industrial and commercial power; problems of transportation, domestic and foreign trade, tariff policy, currency and finance, industrial combinations.

For freshmen and sophomores, others by permission of the instructor.

Through the year. M. W. F., 8; 9. MR. BRANDENBURG

BUSINESS ADMINISTRATION 112. PERSONNEL MANAGEMENT.

BUSINESS ADMINISTRATION 117. ACCOUNTING.

BUSINESS ADMINISTRATION 124b. MARKETING.

BUSINESS ADMINISTRATION 127. INTERMEDIATE ACCOUNTING.

13. MONEY AND BANKING. The principles of money and banking with special reference to their functions in the present economy. The theory of value of money, control of the money market and the problem of money and credit in the world economy are given detailed consideration.

Indivisible course.

Through the year. M. W. F., 10. MR. MAXWELL

140b. CONSUMER ECONOMICS. A study of family budgets, planes of living, and other problems arising in the purchase of the customary goods and services. Emphasis is upon housing, insurance, savings, investments, consumer services supplied by advertisers, private non-commercial agencies, the government, and the cooperative movement.

Half course. Second semester. MR. HALL

Omitted, 1947-48.

15a. PUBLIC FINANCE. The principles of governmental expenditures, revenues, and debts, with particular reference to the United States.

Half course. First semester. M. W. F., 9. MR. MAXWELL

BUSINESS ADMINISTRATION 16. STATISTICS.

BUSINESS ADMINISTRATION 18. BUSINESS ORGANIZATION AND FINANCE.

115b. FISCAL DEVELOPMENT OF THE UNITED STATES. This course treats the development of the functions and revenues of the federal government and of the state governments (with brief notice of the municipalities). For the recent period most attention is given to federal-state fiscal interrelations in the form of federal grants-in-aid, tax conflicts, shared taxes. Recent proposals for a revision of federal-state fiscal relations both for the purpose of bringing federalism up to date and for implementing a high employment program are considered.

Prerequisite: Economics 11, or concurrent enrollment.

Half course. Second semester. MR. MAXWELL

Omitted, 1947-48.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

BUSINESS ADMINISTRATION 20. BUSINESS LAW.

21b. BUSINESS CYCLES. Analysis of recurrent business fluctuations differentiating the typical business cycle and its phases. Treatment of the history, theories of causation and proposals for control of the business cycle.

Prerequisites: Economics 11 and upper class standing.

Half course. Second semester. Tu. Th. S., 9. MR. HALL

205. ECONOMIC THEORY. A critical study of the theories of representative economists. Most attention is given to Smith, Ricardo, Mill, Marshall, Clark, Davenport, Chamberlin, and Keynes.

Through the year. Tu. F., 2:30 - 4:00. MR. MAXWELL

210a. ECONOMIC AND SOCIAL REFORM. The historical and critical study of various programs.

Half course. First semester. Tu. Th. S., 11. MR. HALL

211b. COMPARATIVE ECONOMIC SYSTEMS. A study of totalitarian economic systems; a comparison of antarchy and free capitalism in the modern world; changes in international economic techniques consequent on totalitarian economics.

Prerequisite: Ecoomics 210a, or its equivalent.

Half course. Second semester. Tu. Th. S., 11. MR. HALL

22. LABOR PROBLEMS. A study of the development of worker and employer organizations, collective bargaining, industrial disputes and methods of prevention and settlement. The second semester is devoted largely to the study of legislative control of industrial relationships and the Social Security program.

Through the year. M. W. F., 11. MR. BRANDENBURG

25b. PROBLEMS IN PUBLIC FINANCE. This course deals mainly with problems of post-war taxation and fiscal policy. The theory underlying the so-called "full employment" act of 1946 is discussed, along with methods by which it may be implemented. Other questions for examination are reform of the federal corporate income tax and death duties, incentive taxation, federal debt policy, the capital budget, federal budgetary procedure.

Half course. Second semester. M. W. F., 9. MR. MAXWELL

26. GOVERNMENT AND INDUSTRY. An analysis of the proper function of government in controlling economic activity, including theories of control, historical development of control, and such special problems as the regulation of trusts, public utilities, and railroads.

Through the year. M. W., 2 - 3:30. MR. LUCAS

BUSINESS ADMINISTRATION 27a. INTERNATIONAL TRADE AND FINANCE. MR. HALL

27b. PROBLEMS OF INTERNATIONAL TRADE AND FINANCE. An extension of Bus. Adm. 27a to a study of recent and current developments: barriers to movement of International Trade, Reciprocal Trade Agreements Act, the recent World Trade Organization; problems involved in the International Transfer of Funds, control of foreign exchanges, the function of the International Bank for Reconstruction, the International Monetary Fund and other similar topics.

Half course. Second semester. Tu. Th. S., 9. MR. HALL

28. RESEARCH IN SELECTED ECONOMIC PROBLEMS. Includes departmental honors work and other individual projects completed for credit.

Hours as arranged. THE STAFF OF THE DEPARTMENT

29a. ECONOMICS OF TRANSPORTATION. A study of the development of the transportation system of the United States; its contemporary structure, importance, and economic aspects; the development of public control. Railway rate making and standards therefor; railway combinations and proposals for consolidation; railway labor problems.

Half course. First semester. Tu. Th. S., 10. MR. HALL

3. PRIMARILY FOR GRADUATE STUDENTS

31. INTERNATIONAL ECONOMIC POLICIES. MR. BRANDENBURG
Omitted, 1947-48.

Research courses are offered to meet the needs of the individual students for work not presented in regularly scheduled courses.

311. SEMINAR. STAFF OF THE DEPARTMENT

322. RESEARCH IN LABOR. MR. BRANDENBURG

325. RESEARCH IN PUBLIC FINANCE AND MONEY AND BANKING. MR. MAXWELL

326. RESEARCH IN BUSINESS ORGANIZATION AND GOVERNMENT CONTROL OF BUSINESS. MR. LUCAS

327. RESEARCH IN INTERNATIONAL TRADE AND FINANCE. MR. HALL

338. THESIS. STAFF OF THE DEPARTMENT

SOCIOLOGY

An undergraduate major is not offered in Sociology alone; a student whose primary interest is in Sociology may, however, meet the departmental requirement for a major by completing Economics 11 and three or four courses in Sociology together with three or two approved courses in related departments. Geography 27 a and b, History 11 and Psychology 208a are particularly recommended for this purpose.

COURSES IN SOCIOLOGY

During the academic year 1946-47 the following courses were given: 11, 23a, 24b, 25.

1. PRIMARILY FOR UNDERGRADUATES

11. Principles of Sociology.

First Semester—*Social Organization.*

The study of social structure and of social interaction. Biological, geographical and cultural basis of man and his social life. Tribe, clan, community, society, folkways, mores, class, caste, and race.

Second Semester—*Social Disorganization.*

A study of the effects of social and cultural change from primary to secondary group life. The effects of mobility, urbanization and secularization. Problems of the person in society; dependency, sickness, population, divorce, politics, religion, minority groups.

Prerequisite for further work in Sociology.

Year course. Tu. Th. S., 11. Mr. Killian

12a. Introduction to Cultural Anthropology.

The evolution and development of man and his culture: Basic concepts; the races of man and their distribution; process of adaptation and adjustment through culture; primitive, historic and modern culture complexes compared; divergence, transmission, and function of culture; origin and growth of civilizations; contemporary pre-literate peoples; relationship of anthropology to the other social sciences.

Prerequisite Sociology 11 or approval of instructor.

Half course. First semester. Hours to be arranged. Mr. Killian

New course. To be offered in 1948-49.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

21a. The Family and Society.

A study of the form and function of the family at different culture levels; the influence of geographic, biological, demographic and cultural forces; secondary groups and the family; rural and urban family.

Prerequisite Sociology 11 or approval of instructor.

Half course. First semester. Mr. Killian

Omitted, 1947-48. To be offered in the Summer Term, 1948.

22b. RACE AND NATIONALITY.

The meaning of *race*; the distribution of ethnic groups; ethnic group characteristics—biological and environmental theories. The meaning of nationality; early types of immigrants in America; the cultural backgrounds of the earlier Americans. American minority groups and problems—the Negro, the Jew and other minority groups. The effects of later immigration; immigration restrictions and the quota system; displaced persons and proposed legislative control measures; prospective future of the American population.

Prerequisite Sociology 11 or approval of instructor.

Half course. Second semester. MR. KILLIAN

To be offered in the Summer Term, 1948.

23a. CRIME AND DELINQUENCY.

Study of the explanations for crime and delinquency; history of punishment; other methods of control. Survey of the English and American criminal law and administration of criminal justice; development of penal and correctional methods including probation, parole, release procedure; the juvenile court. Proposals for youth courts and youth correction authorities. Emphasis on crime as a system of behavior. Proposals for curbing crime and delinquency.

Prerequisite Sociology 11 or approval of instructor.

Half course. First semester. Tu. Th., 4 - 5:15. MR. KILLIAN

To be omitted in 1948-49.

24b. COMMUNITY ORGANIZATION.

The contemporary American urban and rural community in action. Nature and types of community; its place in history. Organization of communities in rural and urban life. Community studies and surveys. The constellation of community social agencies. The field of social work, recreation and welfare. Community chests and councils. Sociology and community organization.

Prerequisite Sociology 11 or approval of instructor.

Half course. Second semester. Tu. Th., 4 - 5:15. MR. KILLIAN

25. Social Institutions.

A study of the "institutional complex" in the social order—its history and development, its relation to the process of socialization and to mind, the emergence of standards and norms of control; the family—its basic character, systems of belief—primitive magic to contemporary religious faiths; education; property and other legal and political concepts, etc.; the interrelations, interdependence and significance, especially for the Western World, of institutional forms and processes.

Indivisible course.

Prerequisites Soc. 11 and 12a.

Through the year. Tu. Th. S., 10. Mr. Killian

28. Research in Selected Sociological Fields.

Includes departmental honors work and other individual projects completed for credit.

See also: Economics 12, 140b, 210a, 22.

3. PRIMARILY FOR GRADUATE STUDENTS

38. Research. Social Theory and selected problems.

See also: Economics 311, 322.

COURSES IN EDUCATION

A description of the offerings in Education and a list of courses in Education will be found in the announcement of the Department of Psychology and Education.

DEPARTMENT OF ENGLISH

Professor Dodd, Professor Illingworth, Associate Professor Marble, Assistant Professor Anderson, Mr. Letendre, Mr. Moore and Mr. Abbott

English 11 through the year is required of all freshmen. The first semester is prerequisite to the second semester.

A major in English consists of seven courses in addition to English 11, including English 13 or 147; 15, one semester of 18; one semester of 110 or 112; 113; 122; 131; one semester of 142. A student who expects to major in English should elect either elementary Greek or elementary Latin in the freshman year unless at least two units of one of these languages have been accepted for admission to the college. English 15 should be taken not later than the sophomore year.

THE PRENTISS CHENEY HOYT PRIZE IN POETRY

A prize of fifteen dollars is awarded annually by the Department of English for the best poem by an undergraduate. This is the interest on a fund established by the alumni as a memorial to Prentiss Cheney Hoyt, Professor of English at Clark University from 1909 to 1920.

COURSES IN ENGLISH

During the academic year 1947-1948 the following courses were given: 11, 12, 13a, 15, 16b, 18a, 105b, 112a, 113a, 117a, 121b, 122b, 124a, 125a, 126b, 131b, 142, 147b, and for the Division of Business Administration B.A. 14b and B.A. 17.

1. PRIMARILY FOR UNDERGRADUATES

11. Composition and Literature. The purpose of English 11 is to develop clarity and accuracy in reading and writing. The first semester emphasizes exposition, and includes an introduction to fiction. The second semester is devoted to the study of drama and poetry. Throughout the year expository themes and conferences with the instructor are required.

Required of freshmen.

Through the year. M. W. F., 9; 10; 11; 12. Tu. Th. S., 9; 10; 11.

Mr. Abbott, Mr. Anderson, Mr. Letendre,
Mr. Marble and Mr. Moore

12. Public Speaking. A course in the composition and delivery of the most commonly used speeches, parliamentary procedure, discussion groups, and vocabulary drill.

Indivisible course.

Through the year. M. W. F., 9. Mr. Illingworth

13b. SHAKESPEARE. A study of the development of Shakespeare as a dramatist. Twelve plays are studied, with the main emphasis on *Hamlet, Othello, Lear,* and *Macbeth.*

Elective for juniors and seniors.

Half course. Second semester. Tu. Th. S., 11. MR. ANDERSON

15. A SURVEY OF ENGLISH LITERATURE. A course in English literature from its beginning to the Victorian era.

Through the year. M. W. F., 11.

MR. ANDERSON AND MR. MOORE

16a. ADVANCED COMPOSITION. A critical study of the literary techniques of narration, description, argumentation and exposition. Supervised writing.

Permission of the instructor required.

Half course. First semester. M. W. F., 10. MR. MOORE

18. THE BIBLE AS LITERATURE. First semester, Old Testament; second semester, New Testament.

M. W. F., 10. MR. ILLINGWORTH

Given in the first semester only, 1947-48.

105b. EIGHTEENTH CENTURY. A study of English literature from the end of the Restoration Period to the beginning of the Romantic Movement.

Half course. Second semester. M. W. F., 10. MR. ANDERSON

To be omitted in 1948-49.

110. VICTORIAN PROSE AND POETRY. Elective for juniors and seniors. First semester, poetry; second semester, prose. The first semester may be taken independently.

Through the year. M. W. F., 10. MR. MARBLE

111b. A SURVEY OF AMERICAN LITERATURE. A course in American literature from Puritan times to 1890, with the main emphasis on the writers of the nineteenth century.

Half course. Second semester. M. W. F., 11. MR. ANDERSON

112a. THE POETRY OF TENNYSON AND BROWNING. Elective for juniors and seniors.

Half course. First semester. M. W. F., 9. MR. MARBLE

To be omitted in 1948-49.

113a. British Drama. From the mysteries and moralities to Barrie, Shaw and Galsworthy.

Open to freshmen.

Half course. First semester. Tu. Th. S., 10. Mr. Dodd

114a. Elizabethan Drama. Elective for juniors and seniors.

Half course. Second semester. M. W. F., 10. Mr. Marble

To be omitted in 1948-49. Alternates with course 115a.

115a. Elizabethan Prose and Poetry. Elective for juniors and seniors.

Half course. First semester. M. W. F., 10. Mr. Marble

New course. To be offered in 1948-49 and in alternate years.

117a. English Romantic Poetry. Wordsworth, Coleridge, Byron, Shelley and Keats, with a consideration of the intellectual background of their time.

Half course. First semester. Tu. Th. S., 10. Mr. Moore

To be omitted in 1948-49.

121b. Biography and Letters. The biography, autobiography and correspondence of distinguished authors, painters and sculptors, from the eighteenth century to the present.

This course is open only to upper classmen who are proficient in English.

Half course. Second semester. Tu. Th. S., 10. Mr. Dodd

122b. Modern Poetry. A study, in representative contemporary poets, of the new tendencies in verse. Opportunity is afforded for original verse composition.

Open only to upper classmen who are proficient in English.

Half course. Second semester. Tu. Th. S., 9. Mr. Dodd

124a. American Drama. A study of the American drama from colonial times to the present.

Open to freshmen.

Half course. First semester. M. W. F., 9. Mr. Letendre

125a. The Short Story. Representative short stories in English and American literature.

Open to freshmen.

Half course. First semester. Tu. Th. S., 9. Mr. Dodd

126b. MODERN CONTINENTAL DRAMA. A survey of European Drama from Ibsen to the present.
Open to freshmen.
Half course. Second semester. MR. LETENDRE
To be omitted in 1948-49.

131a. CHAUCER. After a study of the text of two or three of the *Canterbury Tales,* the main works of Chaucer are read more rapidly. The student is also introduced to Middle English grammar and is given drill in reading Chaucer aloud.
Elective for juniors and seniors.
Half course. First semester. Tu. Th. S., 11. MR. ANDERSON

133b. LITERARY CRITICISM. Elective for juniors and seniors.
Half course. Second semester. M. W. F., 10. MR. MARBLE

140a. THE APPRECIATION OF LITERATURE. An analysis of the principal types of literature.
Half course. First semester. Tu. Th. S., 9. MR. ILLINGWORTH
Omitted, 1947-48. To be omitted in 1948-49.

141b. THE AMERICAN NOVEL. A survey of the development of the American novel and a detailed study of representative works.
Half course. Second semester. M. W. F., 9. MR. LETENDRE

142a. THE ENGLISH NOVEL. A study of the novel from its beginning to Thomas Hardy.
Half course. First semester. M. W. F., 8. MR. ILLINGWORTH

142b. THE MODERN NOVEL. A comparative study of representative twentieth century novels of Russia, Germany, France, Sweden, England, and the United States to show how different cultures have treated this vehicle of literary expression.
Half course. Second semester. M. W. F., 8. MR. ILLINGWORTH

145a. STAGECRAFT. A study of the principles and problems involved in producing plays. Practical experience will be given through laboratory work and public performances.
Half course. First semester. MR. ILLINGWORTH
Omitted, 1947-48. To be omitted in 1948-49.

145b. ACTING. Develops the actor from a close study of his basic requirements. An analysis of the emotions, "business," pantomime, and interpretation given in theory and practice.

Half course. Second semester. MR. ILLINGWORTH
Omitted, 1947-48. To be omitted in 1948-49.

146b. ORAL INTERPRETATION OF LITERATURE. A course stressing the imagination and the dramatic instinct as fundamental sources of good oral and pantomimic expression. The intellectual elements of vocal expression are studies with special reference to phrasing, inflection, and emphasis; individual and choral speaking.

Permission of the instructor is a condition for enrolling in this course.

Half course. Second semester. MR. ILLINGWORTH
Omitted, 1947-48. To be omitted in 1948-49.

147b. THE ORAL INTERPRETATION OF SHAKESPEARE. The life of Elizabethan England with special emphasis on the theatre of Shakespeare. Recordings of such actors as Paul Robeson, Maurice Evans, John Gielgud, and Orson Wells. The plays to be read will include *Hamlet, Cymbeline, Julius Caesar, King Lear, Othello, The Comedy of Errors, Merchant of Venice, Taming of the Shrew, As You Like It, Henry V.* and *Richard II.*

Half course. Second semester. M. W. F., 10. MR. ILLINGWORTH

DEPARTMENT OF FINE ARTS

LORING HOLMES DODD, Professor of Rhetoric, Curator of Art, *Chairman of the Department of Fine Arts.*

H. EARLE JOHNSON, *Assistant Professor of Music, Director of Musical Organizations.*

GEORGE STOUT, *Director, Worcester Art Museum.*

HERBERT BARNETT, *Head of Department of Drawing, Painting and Sculpture, School of the Worcester Art Museum.*

With the coöperation of:

HENRY M. BOSSHARD, *Professor of German.*

THEODORE NICOL, *Visiting Professor of Romance Languages.*

CLAUDE W. BARLOW, *Associate Professor of Classics.*

ROBERT S. ILLINGWORTH, *Professor of Dramatic Art.*

A student who intends to major in the visual arts or who intends to offer courses in the visual arts as a part of a major in another department is expected to take the course Fine Arts 1 before electing other courses in this field.

A major in the visual arts will consist of:

1) The basic course, Fine Arts 1, to be completed before the end of the sophomore year.
2) Fine Arts 10, 11, 13, 15.
3) Music 12.
4) One course chosen from the following list: French 113, German 141, Greek 123 and Latin 123.
5) History 11, completed before the end of the sophomore year.
6) History 17.

COURSES IN FINE ARTS

During the academic year for 1947-48 the following courses in Fine Arts have been given: 10, 13, 111, and Music 12.

1. PRIMARILY FOR UNDERGRADUATES

FINE ARTS 1. INTRODUCTION TO REPRESENTATION AND DESIGN. Problems of the artist, particularly in relation to drawing and painting, considered in terms of theory, technical application, and historical development. Studio work, gallery talks, lectures, discussions, and assigned reading.

A fee of $10 each semester in addition to the regular tuition is charged for this course. There is also an initial expense, estimated at about $10, for drawing and painting materials and a small continuing expense for replacements.

Open to freshmen.

Through the year. Six hours per week at the School of the Worcester Art Museum, with additional assigned study. M. Tu., 2-5.

MR. STOUT, MR. BARNETT, MR. HOVSEPIAN

A new course replacing Fine Arts 1 and 111 as described in the 1947 Catalog.

To be offered in 1948-49.

FINE ARTS 10a. THE ART OF MY COUNTRY. American accomplishment in painting, sculpture and architecture. Illustrated lectures, assigned readings. Field trips are required.

Open to freshmen.

First semester. M. W. F., 9. MR. DODD

FINE ARTS 11b. FRENCH AND ENGLISH PAINTING, 18TH AND 19TH CENTURIES. Field trips are required. Fine Arts 10 is a prerequisite for freshmen, who are admitted only in special cases, at the discretion of the instructor.

Half course. Second semester. M. W. F., 9. MR. DODD

Omitted, 1947-48.

FINE ARTS 13b. PAINTING IN EUROPE IN THE 17TH CENTURY. The trends that led, among others, to El Greco and Velasquez, Rembrandt, and Hals, Rubens and Van Dyck. Field trips are required.

Half course. Second semester. M. W. F., 9. MR. DODD

Omitted, 1947-48.

FINE ARTS 15b. THE ITALIAN RENAISSANCE. Painting, sculpture, and architecture in the era of Italy's greatest achievements in the arts. Field trips are required.

Half course. Second semester. M. W. F., 9. MR. DODD

MUSIC 12. A SURVEY COURSE IN FORM AND STYLE. Beginning with the genesis of sonata-form, the course extends to the beginning of the twentieth century. The Vienna classicists, the romantic movement, the rise of impressionism, and the so-called modernists are treated in various types of music heard in concert-hall, opera house, and over the radio.

An indivisible course except that qualified students may be admitted for the second semester with the consent of the instructor.

Elective for sophomores, juniors, and seniors.

Through the year. M. W. F., 11 and 12 (2 sections).

MR. H. E. JOHNSON

MUSIC 13. THE OPERA. A course in the evolution of opera from Peri's *Dafne* to Berg's *Wozzeck*. A large repertory of major scores is studied with such historical and literary backgrounds as may conveniently be applied.

Elective for sophomores, juniors, and seniors.

Through the year. MR. H. E. JOHNSON

To be omitted in 1948-49.

MUSIC 14b. TWENTIETH CENTURY MUSIC. The changing concepts of musical form and style parallel those in the visual arts and are closely related. Beginning most conspicuously with Debussy, the newer idioms are traced in this course to the present day through careful study of works by Ravel, Stravinsky, Hindemith, Copland, Berg, Schönberg, Harris and many others whose scores have significance for their time. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.

Half course. Second semester. Tu. Th. S., 10.

MR. H. E. JOHNSON

New course. To be offered in 1948-49.

MUSIC 15a. MUSIC TO 1750. A course in early music from its primitive stages, through the Middle Ages, and the productive 14th-16th centuries, culminating in the masterworks of Bach and Händel. As in all music courses, emphasis is placed on forms and styles. Music 12 or some acquaintance with the literature of music is prerequisite.

Elective for sophomores, juniors, and seniors.

Half course. First semester. Tu. Th. S., 10. MR. H. E. JOHNSON

New course. To be offered in 1948-49.

FRENCH 113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, and literature of France, from the Middle Ages to the present time, given in coöperation with the Worcester Art Museum.

Through the year. MR. NICOL

Omitted, 1947-48. To be offered in 1948-49.

GERMAN 141. GERMANIC CIVILIZATION. MR. BOSSHARD
Omitted, 1947-48. To be omitted in 1948-49.

GREEK 123a. GREEK CIVILIZATION.
Half course. First semester. Tu. Th. S., 11. MR. BARLOW

LATIN 123b. ROMAN CIVILIZATION.
Half course. Second semester. Tu. Th. S., 11. MR. BARLOW

ENGLISH 145a. STAGECRAFT. MR. ILLINGWORTH
Half course. First semester.
Omitted, 1947-48.

COURSES IN FRENCH

A description of the offerings in French and a list of courses in French will be found in the announcement of the Department of Romance Languages.

COURSES IN GEOGRAPHY

A complete statement of the organization and special requirements in the Graduate School of Geography will be found in an earlier section of the catalog under the general heading, The Graduate Section and the special heading, The Graduate School of Geography. The courses which were given in 1947-48, and the offerings for 1948-49 are listed below.

UNDERGRADUATE PROGRAMS

Undergraduates planning to major in geography or to enter graduate work in geography are urged to consult the geography staff early in their undergraduate courses, to plan suitable programs including essential courses in related fields.

Majors in geography are required to take seven year-courses, or the equivalent, in geography and related fields. At least four, and not more than five of these courses must be in geography.

GEOGRAPHY 10—Principles of Geography is usually taken in the freshman year (or as early as possible after the major subject is chosen to be geography). One or two of the following may be taken in the sophomore year: Geography 12—Introduction to Meteorology and Climatology, Geography 16—Economic Geography, Geography 191—Cartography. Regional Courses in geography, such as 18—Geography of New England, 182(a)—Geography of North America, 183(b)—Geography of South America, 184—Geography of the Americas, 185—Geography of Europe, should not be undertaken until the junior or senior years in order to realize the best results.

Juniors of superior standing and seniors may be accepted, by special permission to take number "2" geography courses, such as 27(a)—Human Geography, 27(b)—Cultural Geography, 201—Political Geography, 20(b)—Geography in Education (primarily for those expecting to teach).

Courses in Fields Related to Geography

Students majoring in geography should plan early to take the required courses in other fields in order to possess the prerequisites for admission to advanced related courses in their junior and senior years to parallel the courses in their geography program.

The very nature of geography permits a rather wide selection of related courses. However, courses in history, economics, geology, biology, physics, are usually acceptable.

Geology 12, Biology 11, History 11, or Physics 11 may be taken in the freshman year; Economics 11, History 12, 15, or 17 in the sophomore year. More advanced work in the fields mentioned will depend largely upon the individual student's interest and desires. The Liberal Arts College requirement that he build his program from several "divisions" should have enabled him by his junior and senior years to exercise good judgment in the further selection of courses related to geography and satisfying to his special interests. In the last two years encouragement is given to juniors and seniors to enter courses which will foster a greater grasp of the philosophical aspects of the work and the related fields.

"HONORS WORK" IN GEOGRAPHY

The Clark University Graduate School of Geography offers opportunity to properly qualified students for advanced training in geography. The staff, composed of specialists in their various fields of geography offer regular courses in instruction and direct advanced students in research work. Hence, a junior or senior pursuing an "honors program" in geography is afforded an opportunity to associate with other students in the Graduate School of Geography. For example, a superior student may undertake 391—Advanced Cartography, 314—Physiography of the Western Hemisphere, 34—Biogeography, 32—Climatology, 36—Problems of Economic Geography, and some graduate regional courses. On rare occasions an undergraduate student has been invited to participate in the Fall Field Camp of the Graduate School.

Independent research projects may be undertaken with the adviser in constant surveillance. This research work may be in the fields of Human Geography, Physiography, Geography in Education, Economic Geography, Land Utilization, and Regional Geography. Such research work must be completed within the semester it is started, or proof advanced that the study warrants more time.

When the Senior Survey is set up all honors student will be required to participate. The staff also conducts an oral examination of at least one hour's length to ascertain the achievement of the honors student.

COURSES IN GEOGRAPHY

1. PRIMARILY FOR UNDERGRADUATES

10. PRINCIPLES OF GEOGRAPHY. An introductory course dealing primarily with the physical phases of geography and the application of the principles of geography to the study of selected regions throughout the world.

Through the year. M. W. F., 10. MR. WARMAN

12. INTRODUCTION TO METEOROLOGY AND CLIMATOLOGY. Elements of meteorology and climatology with practical exercises and emphasis on most recent theories.

Prerequisite: Geography 10 or equivalent.

Through the year. Tu. Th. S., 8. MR. WARMAN

16. ECONOMIC GEOGRAPHY. A study of the distribution of people and of their economic activities organized on a regional basis, beginning with North America and continuing through the other continents.

Prerequisite: Geography 10 or Economics 11, or equivalent.

Through the year. Tu. Th. S., 9. MR. MURPHY

18. GEOGRAPHY OF NEW ENGLAND. A field and lecture course with special emphasis, in the first semester, on Worcester and vicinity. In the first semester, class meetings begin October 11, following the field camp. Because of the late beginning, three special week-end field trips of three hours each, with carefully prepared reports of each, are required.

Indivisible course.

Prerequisites: Geography 10 and Geology 12, or equivalent.

Through the year. M. W. F., 9. MR. LOUGEE

182a. GEOGRAPHY OF NORTH AMERICA. A systematic regional treatment of the physical, economic, and cultural geography of North America.

Prerequisite: Geography 10 or equivalent.

Half course. First semester. M. W. F., 11. MR. WARMAN

Omitted, 1947-48. To be offered in 1948-49.

185b. GEOGRAPHY OF EUROPE. Intensive survey of the continent and detailed study of selected regions.

Half course. Second semester. M. W. F., 11.

MR. VAN VALKENBURG

191. CARTOGRAPHY AND GRAPHICS. Preparation of maps, graphs, charts, and block drawings.

Through the year. M., 3-5; W., 12. MR. BURNHAM

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

27a. HUMAN GEOGRAPHY. Considers influence and effect of location, area, relief, coastline, drainage systems, climate, and other geographic factors, separately and in their mutual interaction upon the economic, social, and political development of peoples and states.

Juniors of superior standing and seniors may be accepted, by special permission.

Half course. First semester. M. W. F., 11. MR. EKBLAW

27b. CULTURAL GEOGRAPHY. Summarizes the role that geographic factors have played in the evolution of races and cultures, artifacts and institutions.

Juniors of superior standing and seniors may be accepted, by special permission.

Half course. Second semester. M. W. F., 11. MR. EKBLAW

201. POLITICAL GEOGRAPHY. Study of major political problems of the world as related to geographic factors. Application of principles to international relations of selected regions.

Through the year. Tu. Th. S., 10. MR. VAN VALKENBURG

20b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American school system, designed to meet the needs of those expected to teach geography.

This class holds its meetings in the late afternoon so that teachers in public and private schools may be able to attend.

Half course. Second semester. M., 4-6. MR. WARMAN

3. PRIMARILY FOR GRADUATE STUDENTS

30. SEMINAR. Hours to be arranged. THE STAFF

32. REGIONAL CLIMATOLOGY. A study of the climates of the world by major regional examples.

Two hours, through the year. M. W., 8. MR. VAN VALKENBURG

33a. SOIL GEOGRAPHY. Reviews development and character of soils, their distribution and economic significance, in the light of their geographical relationships.

Three hours, first semester. M. W. F., 9. MR. EKBLAW

To be offered in 1948-49. To be omitted in 1949-50.

33b. LAND UTILIZATION AND PLANNING. Outlines relationships that physical and cultural factors bear to purpose and pattern of land uses, conservation of land resources, and basic elements of land planning.

Three hours, second semester. M. W. F., 9. MR. EKBLAW

To be offered in 1948-49. To be omitted in 1949-50.

34a. BIOGEOGRAPHY. Geographic significance of character, function, distribution, and relationships of plant and animal forms and societies in their adjustments to factors and habitat.

Three hours. First semester. M. W. F., 9. MR. EKBLAW
To be omitted in 1948-49. To be offered in 1949-50.

34b. LIFE ZONES AND REGIONS. Major life zones, plant associations, and animal societies, regionally considered in relation to the elements of climate and terrain; and their effect on man's activities.

Prerequisite: Geography 34a.
Three hours. Second semester. M. W. F., 9. MR. EKBLAW
To be omitted in 1948-49. To be offered in 1949-50.

36. PROBLEMS IN ECONOMIC GEOGRAPHY. An advanced study of economic geography, dealing especially with mining, agriculture, and manufacturing. Emphasis upon research methods and techniques.

Two hours, through the year. M. W., 10. MR. MURPHY

39. HISTORICAL BACKGROUND OF GEOGRAPHY. A series of lectures on European and American phases.

Hours to be arranged. MR. VAN VALKENBURG AND MR. EKBLAW

300. PH.D. SEMINAR. Hours to be arranged.
MR. VAN VALKENBURG

314. REGIONAL PHYSIOGRAPHY OF WESTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lecture and two hours in the laboratory weekly.
Through the year. Tu. Th., 9. MR. LOUGEE
To be omitted in 1948-49. To be offered in 1949-50.

315. REGIONAL PHYSIOGRAPHY OF THE EASTERN HEMISPHERE. A study of selected areas within the major physiographic regions. Laboratory interpretation of maps and aerial photographs.

Two hours of lectures and two hours of laboratory weekly.
Through the year. Tu. Th., 9. MR. LOUGEE
Omitted, 1947-48. To be offered in 1948-49.

361a. URBAN GEOGRAPHY. The modern city from the viewpoint of geography.
First semester. Tu. Th., 11. MR. MURPHY

383a. GEOGRAPHY OF MIDDLE AMERICA. Historical background of the republics and islands of the Caribbean; analysis of selected important regions; increasing importance of the Caribbean area in commercial and political relations.
Two hours, first semester. Tu. Th., 2. MR. WARMAN
To be omitted in 1948-49. To be offered in 1949-50.

383b. GEOGRAPHY OF SOUTH AMERICA. Analysis of the major geographic regions of South America; special geographic problems of South American governments.
Two hours, second semester. Tu. Th., 2. MR. WARMAN

385. GEOGRAPHY OF EURASIA. Intensive survey of the continents and detailed study of selected regions.
Through the year. M. W., 2. MR. VAN VALKENBURG
To be omitted in 1948-49.

387b. GEOGRAPHY OF THE PACIFIC AREA. A regional treatment of the human geography of the islands of the Pacific.
Second semester. Tu. Th., 11. MR. MURPHY

391. CARTOGRAPHIC PRESENTATION OF THE GEOGRAPHICAL LANDSCAPE.
Through the year. F., 2:30 to 4:30. MR. RAISZ

399a. FIELD METHODS AND STUDIES. Required of every graduate student.
First three weeks of every year. THE STAFF

RESEARCH COURSES

200. GEOGRAPHY IN EDUCATION. MR. WARMAN

310. REGIONAL PHYSIOGRAPHY. MR. LOUGEE

320. CLIMATOLOGY. MR. VAN VALKENBURG

330. SOILS GEOGRAPHY. MR. EKBLAW

340. BIOGEOGRAPHY. MR. EKBLAW

350. AGRICULTURAL GEOGRAPHY OR LAND UTILIZATION. MR. EKBLAW

360. ECONOMIC GEOGRAPHY. MR. MURPHY

370. HUMAN GEOGRAPHY AND DEMOGRAPHY. MR. EKBLAW

380. REGIONAL GEOGRAPHY. THE STAFF

390. POLITICAL GEOGRAPHY. MR. VAN VALKENBURG

DEPARTMENT OF GEOLOGY

PROFESSOR LITTLE

During the academic year 1947-48 only course 12 was given.

1. PRIMARILY FOR UNDERGRADUATES

12. GENERAL GEOLOGY. A course dealing with the origin of scenery, the classification and interpretation of rocks, the structure of the earth, the geography of the past, and the evolution of life.

Three recitations and one laboratory period or field trip weekly. Attendance on one out-of-town field trip lasting two to four days is required.

Indivisible course.

Through the year. M. W. F., 8; Th. 2. MR. LITTLE

121b. CRYSTALLOGRAPHY, MINERALOGY, AND BLOWPIPE ANALYSIS. An elementary course on the identification of minerals by their geometrical, physical, and chemical properties. Two class meetings and one laboratory period weekly. General geology is not a prerequisite for this course. MR. LITTLE

Omitted, 1947-48.

122b. ECONOMIC GEOLOGY. A course dealing primarily with the origin of the deposits of useful minerals with some reference to their more important occurrences throughout the world. Elementary chemistry and geology provide a desirable background for this course. Two class meetings and one laboratory period weekly.

Geology 121 is a prerequisite. MR. LITTLE

Omitted, 1947-48.

DEPARTMENT OF GERMAN

Professor Bosshard, Associate Professor Palmer,
Assistant Professor Edwards

The Department of German provides undergraduate courses for the acquisition of a reading and speaking knowledge of German and for the study of German literature and Germanic civilization.

German 11, 12, 13 form a regular sequence leading to a reading knowledge.

The language requirement (See requirements for the Degree of Bachelor of Arts) may be fulfilled by German 13 or a literature course with their stated prerequisites. The Department may, when justified by the exceptional preparation or objectives of a student, permit German 123 to take the place of 13 for the fulfillment of the language requirement.

The seven courses required for a major should include the two literature courses, German 152 and 153, prerequisites to these courses, and one course in another language department. Elective courses should be approved by the Department.

Attention to correct pronunciation and writing is given in all language and literature courses. The recording machine and gramophone are used in all classes to assist in the acquisition of correct pronunciation.

The "Germanic Society" is an organization of students which provides lectures in English on various aspects of Germanic civilizations, literatures, and languages (Germany, Austria, Switzerland, Scandinavian countries, and Holland) and their relationship to American and English culture. Some evenings are reserved for reading, singing, and speaking German.

The Department of German has a chapter of the "Delta Phi Alpha" honorary German fraternity. Outstanding students of German may be invited to be members of the fraternity.

Courses in German

During the academic year 1947-48 the following courses were given: 11, 12, 123, 13, 19, 153.

1. PRIMARILY FOR UNDERGRADUATES

11. Reading Approach to German—For Beginners. Study of vocabulary, pronunciation, elements of grammar, composition, reading of easy prose. Indivisible course.

Through the year. M. W. F., 8 and 10; Tu. Th. S., 9.

Mr. Bosshard, Mr. Palmer and Mr. Edwards

12. Intermediate German (Second Year). Reading, translation, review of grammar essentials, exercises in composition and pronunciation.

Prerequisite: German 11 or two years of high school German.

Indivisible course.

Through the year. M. W. F., 9; Tu. Th. S., 9, 10.

Mr. Palmer and Mr. Edwards

13. Readings in German Literature (Third Year). Introduction of the student to a few of the outstanding works of German literature. Additional readings in the social sciences. Exercises in composition.

Prerequisites: German 12 or its equivalent.

Through the year. Tu. Th. S., 9 and 10.

Mr. Bosshard and Mr. Palmer

123. Conversational German. Practice in speaking and writing German. Recommended for those students who plan to major in German or for non-majors who have a real interest in attaining fluency in the language.

Prerequisite: German 12, or its equivalent.

Through the year. M. W. F., 10. Mr. Edwards

152. Literature: The Age of Enlightenment and the Classical Period. Lectures, reading reports.

Prerequisite: German 13 or satisfactory record in an achievement test in reading, writing and the oral use of the language.

Through the year. M. W. F., 9. Mr. Bosshard

Omitted, 1947-48. Offered in alternate years.

153. Literature: The Nineteenth and the Twentieth Centuries. See German 152.

Through the year. M. W. F., 9. Mr. Bosshard

19. Seminar for Honor Students. Independent reading of literature to supplement the work done in course. Oral and written reports.
Through the year. Three hours a week. Mr. Palmer

COURSES NOT REGULARLY OFFERED

111. Speaking Approach to German. For Beginners.

132. Advanced Grammar and Composition.

141. Germanic Civilization. An illustrated lecture course on the cultural development of northern Europe from Indo-European times through the Renaissance to the Classical period.

142. German Classics in Translation.

161a. Lyric Poetry. A survey of German lyric poetry.

162b. Goethe's Faust. Fragment, First and Second Part.

HEALTH EDUCATION FOR UNDERGRADUATE WOMEN

A required course for students in the Women's College, offered each academic year.

Health Education for Undergraduate Women. A study of the principles of healthful living which will aid the student in developing attitudes and habit necessary for happiness and service in personal, family, and community life.
A non-credit course.
First semester. Th., 12-1. Miss Hughes

DEPARTMENT OF HISTORY AND INTERNATIONAL RELATIONS

Professor Lee, Professor Jordan, Assistant Professor Hayden, Assistant Professor Campbell, Assistant Professor Cohen

UNDERGRADUATE WORK

In its undergraduate program the department offers basic courses in the fields of American, European, and British history, American and European government, and international relations.

History 11, primarily for freshmen, is open to members of all classes, but must be taken as early as possible by majors in the department. Other underclass (1) courses may be elected by non-majors who have not previously taken History 11; and upperclass (2) courses may be taken with the permission of the instructor if in his judgment the individual student has an adequate background for the course. Majors will normally take History 17 as well as 11, before the end of the sophomore year. Further elections in the department are determined by the major's special interests, but are expected to include at least two upper class (2) courses.

GRADUATE WORK

The distinctive feature of the graduate work is the emphasis laid upon individual instruction and guidance by means of informal conferences between instructor and student, small classes, and seminars. The principal fields of graduate study are American history and politics, modern diplomacy, and the international relations of the United States, Europe, the British Empire, and the Far East.

The program for the degree of Master of Arts is worked out individually with each student. All are required to take the departmental Seminar (36 or 360). For the university requirements, see the announcement of the Graduate School.

For the doctorate, a candidate must present six fields of study, two of which are normally written off by approved courses or by written examinations, while four are tested in the preliminary oral examination. The doctoral dissertation is written in one of the six fields, designated as the "special" field. The final doctoral examination covers both the dissertation and the special field.

Attention is called to related work offered in the fields of geography and economics from which minor fields for both the master's and the doctor's degrees may be chosen. Note also the announcement of the Division of International Affairs.

GOVERNMENT

The following courses constitute the department's offerings in the field of Government: 12—American Government; 212a—Comparative Government; 214a—United States Constitutional History;

215b—American Political Parties; 27b—Recent Political Thought; 231—International Law and Organization.

COURSES IN HISTORY AND INTERNATIONAL RELATIONS

During the academic year 1947-48 the following courses were given: 11, 12, 15, 17; 20, 23, 27b, 205a, 212a, 214a, 215b, 230; the Honors Conference; 320a, 340, 36, 360.

1. PRIMARILY FOR UNDERGRADUATES

11. Introduction to the History of Europe. A survey of European civilization from the Roman Empire to the present time.

A special fee of $1 is charged for supplies and duplicate library copies of books.

Open to freshmen. See departmental announcement above.

Through the year. Tu. Th. S., 10. Mr. Lee and Mr. Jordan, assisted by Miss Irwin and Mr. Baskin

12. American Government. A study of the structure and functions of American Government with some attention to the problems of modern administration.

Through the year. M. W. F., 12. Mr. Cohen

15. History of England. Dealing primarily with British history since the fifteenth century this course forms a background for the study of American history and English literature.

Through the year. M. W. F., 8. Mr. Jordan

17. Introduction to United States History. A survey from the age of discovery to the present, with emphasis upon political and economic developments.

Open to freshmen.

Through the year. Tu. Th. S., 9.

Mr. Campbell assisted by Mr. Brickley

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

20. Europe Since 1830. The development of the major European nations with special emphasis on the period from 1870 to the present.

Through the year. Tu. Th. S., 11. Mr. Lee

To be omitted in 1948-49. Offered in alternate years.

22b. THE MODERN FAR EAST. The course deals primarily with international relations in the region since 1895.
Half course. MR. HAYDEN
Omitted, 1947-48. To be offered in the Summer Term, 1948.

23. AMERICAN DIPLOMATIC HISTORY. The history of the foreign relations of the United States from 1783 to the present.
Through the year. M. W. F., 2. MR. HAYDEN
To be omitted in 1948-49. Offered in alternate years.

27b. RECENT POLITICAL THOUGHT. The conflicting ideologies of our time in their development since the French Revolution. Marxism, Fascism, and Nazism will be analyzed with especial reference to their challenge to liberal democracy.
Second semester. M. W. F., 9. MR. JORDAN
To be omitted in 1948-49. Offered in alternate years.

28. HISTORY OF THE BRITISH EMPIRE. In the second semester the course will deal with developments and problems since 1900.
Through the year. M. W. F., 9. MR. JORDAN
Omitted, 1947-48. Offered in alternate years.

29. RUSSIA AND THE NEAR EAST. Beginning with the Byzantine empire and the Kievan state, special attention is given to recent times, particularly to the Russian revolution of 1917 and the Soviet regime since that date.
Through the year. Tu. Th. S., 11. MR. LEE
Omitted, 1947-48. Offered in alternate years.

201. SOCIAL AND INTELLECTUAL HISTORY OF THE UNITED STATES. Beginning with a brief survey of the European background of American ideas and institutions, this course deals with the main currents in American thought and society from colonial times to the present.
Through the year. Tu. Th. S., 10. MR. CAMPBELL
Omitted, 1947-48. Offered in alternate years.

205a. INTRODUCTION TO POLITICAL PHILOSOPHY. A study of the main trends of Western political thought with reference to their underlying social, political and economic realities.
Half course. First semester. M. W. F., 9. MR. JORDAN
Omitted, 1948-49. Offered in alternate years.

212a. Comparative Government. The governments and politics of Great Britain and the major European powers.
Half course. First semester. M. W. F., 10. Mr. Cohen

214a. Constitutional History of the United States. Major emphasis is placed on the historical development and the present interpretations of our basic law.
Half course. First semester. Tu. Th. S., 10. Mr. Campbell
To be omitted in 1948-49. Offered in alternate years.

215b. American Political Parties. A study of the functioning of American party organizations, pressure groups, and the electorate in American politics. Emphasis is placed upon current problems and trends in the field.
Half course. Second semester. M. W. F., 10. Mr. Cohen

230. Theory and Practice of International Relations. International rivalries in the 20th century examined, with attention to supposed genuine national interests. Their worldwide nature is emphasized, and the failure of past efforts to establish order analyzed as a basis for estimating the practicality of modern policies and proposals.
Through the year. M. W. F., 11. Mr. Hayden

231. International Law and Organization. A survey of the historic doctrines of international law and their application to modern conditions is followed by a study of the various institutions created to handle international economic, social, and political problems, especially those concerned with the pacific settlement of disputes and the establishment of world order.
Through the year. M. W. F., 2. Mr. Hayden
Omitted, 1947-48. Offered in alternate years.

233b. European International Relations Since 1930. Although the emphasis is placed upon international relations, some attention is paid to internal developments in the more important states in order to make clear the causes and course of the war of 1939-45, and its immediate aftermath.
Half course. Mr. Lee
Omitted, 1947-48. To be offered in the Summer Term, 1948.

234a. AMERICAN COLONIAL HISTORY TO 1776. This will include the European backgrounds of American history with particular reference to England, and the political, economic, and social development of the colonies.
Half course. First semester. Tu. Th. S., 11.
Omitted, 1947-48. To be offered in the summer term, 1948.

235b. HISTORY OF BRITISH INDIA.
Half course. Second semester. MR. JORDAN
Omitted, 1947-48.

238. THE EASTERN MEDITERRANEAN AND THE ARAB WORLD. A study of the Near and Middle East as an area of increasing importance in the international relations of the great powers in the nineteenth and twentieth centuries. An attempt will be made to provide an understanding of the background of the present critical situation.
Through the year. MR. JORDAN AND MR. LEE
Omitted, 1947-48. To be offered in the Summer Term, 1948.

242a. THE UNITED STATES IN THE TWENTIETH CENTURY. A study of the chief influences in American civilization since 1900, with special attention to the emergence of current social and economic problems.
Half course. First semester. MR. CAMPBELL
Omitted, 1947-48. To be offered in the summer term, 1948.

HONORS CONFERENCE. A course for honors candidates, in which emphasis is put upon student reports and discussion.
Through the year. Th., 2-4. MR. LEE AND STAFF

3. PRIMARILY FOR GRADUATE STUDENTS

302a. MODERN IMPERIALISM. An attempt to determine whether certain people must or should rule over others, in the light of past experience and contemporary realities.
Half course. First semester. M., 2-4. MR. HAYDEN
Omitted, 1947-48.

320a. ENGLAND SINCE 1865. The development of the United Kingdom from the time of its greatest power to its present struggle to maintain a world position.

Half course. First semester. M., 4-6. Mr. Jordan
To be omitted in 1948-49. Offered in alternate years.

332. European International Relations Since 1870. A study of the diplomatic history of Europe from the Franco-Prussian war to the present time.
Through the year. Th., 2-4. Mr. Lee
Omitted, 1947-48. Offered in alternate years.

340. Problems of Democracy in the United States, 1880-1920. An analysis of the fundamental factors making for change in American economic and political thought at the turn of the century is followed by an intensive study of the progressive movement.
Through the year. Tu., 2-4. Mr. Campbell

36. History Seminar. Introduction to bibliography and criticism and discussion of research problems being investigated by graduate students and faculty.
Required of all first-year graduate students in history.
Half course, through the year. Mr. Lee and Staff

360. International Relations Seminar. A study of contemporary problems by means of student research and reports. Required of all first-year graduate students in International Relations.
Half course. Through the year.
Mr. Hayden and the Staff of the Department

GRADUATE READING AND THESIS COURSES

Reading courses are offered to meet the wants of individual students who need work which is not presented in regularly scheduled courses. Thesis courses provide guidance for those preparing theses or dissertations. These may be semester courses or year courses.

351. Reading.
361. Thesis.
In the History and International Relations of Europe. Mr. Lee

352. Reading.
362. Thesis.
In the History and International Relations of England and the British Empire. Mr. Jordan

353. Reading.
363. Thesis.
In the History of the United States. Mr. Campbell

354. Reading.
364. Thesis.
In International Relations. Mr. Hayden

355. Reading.
365. Thesis.
In American and Comparative Government and Politics. Mr. Cohen

DEPARTMENT OF MATHEMATICS

Professor Melville, Associate Professor Patton, Mr. Stone

The department of mathematics offers courses at the undergraduate level only.

Freshman mathematics includes algebra, trigonometry and elementary analytical geometry. This course is required of every student whose major subject is a science. A second year course continues the study of analytical geometry and gives an introduction to differential and integral calculus. The completion of this course gives the minimum mathematical training required for a major in physics or chemistry. The third year course is devoted to the further study of calculus, including differential equations.

Following the three fundamental courses, the offerings vary, depending on the needs and wishes of the students.

A major in mathematics normally includes courses 11, 12, 13, 14 and 15 together with two or three courses in physics.

COURSES IN MATHEMATICS

During the academic year 1947-48 the following courses were given: 10, 11, 12, 13, 14, 15, 16.

1. PRIMARILY FOR UNDERGRADUATES

Note: Only freshmen or sophomores may elect Mathematics 10 or 11 for full credit. Juniors or seniors who complete the work of either of these courses will receive credit for two-thirds of a course.

10. Freshman Mathematics. Algebra, trigonometry and graphics.

Open to freshmen.

Through the year. M. W. F., 8; Tu. Th. S., 8 and 9.
MR. STONE AND MR. PATTON

11. FRESHMAN MATHEMATICS. For students whose records in placement examinations indicate that they will be able to proceed more rapidly than the students in course 10. Algebra, trigonometry and elementary analytical geometry.

Open to freshmen.

Through the year. Tu. Th. S., 10 and 11.
MR. MELVILLE, MR. STONE AND MR. PATTON

12. SECOND YEAR COURSE. Analytical geometry, introduction to differential and integral calculus.

Through the year. M. W. F., 11 and 12.
MR. MELVILLE AND MR. STONE

To be offered in the Summer Term, 1948.

13. CALCULUS AND DIFFERENTIAL EQUATIONS.

Through the year. Tu. Th. S., 9. MR. MELVILLE

To be offered in the Summer Term, 1948.

14b. SELECTED TOPICS FROM ANALYSIS AND GEOMETRY.

Half course. Second semester. Tu. Th. S., 8. MR. MELVILLE

15a. ADVANCED ALGEBRA AND THEORY OF EQUATIONS.

Half course. First semester. Tu. Th. S., 11. MR. MELVILLE

113b. STATISTICS.

Second semester. Tu. Th. S., 9. MR. MELVILLE

Omitted, 1947-48.

16b. ADVANCED ANALYTICAL GEOMETRY IN TWO AND THREE DIMENSIONS.

Half course. Second semester. Tu. Th. S., 11. MR. MELVILLE

COURSES IN PHILOSOPHY

President Jefferson

Courses in philosophy are designed to broaden the student's perspective and help him trace the relations among the various fields of knowledge. They are primarily inclusive rather than particular, and their ultimate aim is to reach a unified view of the world and of human experience.

Philosophy 11. Introduction to Philosophy. A study of the nature and method of philosophy. The application of philosophical method to contemporary personal and social problems. A detailed analysis of some typical problems in the various fields of philosophy.

Not open to freshmen
Indivisible course.
Three hours, through the year.
To be omitted in 1948-49.

Philosophy 12. History of Philosophy. A study of the movements of philosophical thought from the early Greeks to the present day and an analysis of the place of philosophy in the development of Western culture.

Not open to freshmen
Indivisible course.
Three hours, through the year. M. W. F., 12. Mr. Jefferson
Omitted, 1947-48.

DEPARTMENT OF PHYSICS

Professor Roope, Assistant Professor Gunter

UNDERGRADUATE WORK

The department offers fundamental courses required in preparation for the study of chemistry, biology, meteorology and allied sciences, medicine, dentistry, engineering and science teaching, as well as courses leading to professional or graduate work in physics.

The requirement for a major in physics consists of Physics 11, two courses from Physics 15, 16, 17, 18, 124, either Physics 22 or 23, Mathematics 11 and 12, and Chemistry 11. In addition to electives in Physics, Mathematics 13 and Chemistry 19 are desirable. Students preparing for graduate work should also obtain a good reading knowledge of French and German while in college.

Physics 11 is a prerequisite for all other courses in the department. Courses numbered 15 or higher, except 17 and 124, require the use of calculus and should not be elected without consulting the instructor in charge. Courses 15 and 17 each require a limited amount of laboratory work to be done at the discretion of the instructor and at such times as will not interfere with regularly scheduled courses.

GRADUATE WORK

Courses leading to the degree of Doctor of Philosophy and Master of Arts are omitted for the present.

COURSES IN PHYSICS

During the academic year 1947-48 the following courses were given: 11, 15, 16, 18a, 18b, 22, 23.

During the academic year 1948-49 the following courses will be offered: 11, 17, 18a, 18b, 124, 22, 23.

PRIMARILY FOR UNDERGRADUATES

11. General Physics. Mechanics, heat, electricity and magnetism, wave motion, sound, and light.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 10; M. or Tu. or W., 2. Mr. Roope

13. History of Physics. Mr. Roope

Omitted, 1947-48.

15. Heat and Thermodynamics. This course includes a study of thermometry, calorimetry, the thermal properties of matter in the solid, liquid and gaseous states, the laws of thermodynamics, and applications to a wide range of phenomena.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Through the year. M. W. F., 9. Mr. Roope

16. OPTICS. The first semester is devoted to a study of the principles of geometrical optics and their application to various optical instruments, including ground and aerial cameras. The second semester is devoted to the principles and application of physical optics.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently).

Through the year. Tu. Th. S., 10; Tu. or Th., 2. MR. GUNTER

17. INTRODUCTION TO MODERN PHYSICS. An elementary treatment of physical experiment and theory of the past fifty years including the more recent atomic and nuclear developments.

Through the year. M. W. F., 9. MR. ROOPE

Omitted, 1947-48.

18a. THEORETICAL SPECTROSCOPY. The origin of line and band spectra in both emission and absorption spectrophotometry is treated.

Prerequisites: Physics 11 and Mathematics 12 (may be taken concurrently). Physics 16 and 17 are desirable but not required.

Half course. First semester. Tu. Th. S., 11. MR. GUNTER

18b. EXPERIMENTAL SPECTROSCOPY. The theory and applications of the optical and electrical instruments used in experimental spectroscopy are discussed. The student will become familiar with the use of prism and grating spectrographs, micro-densitometers, interferometers, and their associated photographic and electrical techniques. The principles of spectrochemical analysis are included in this course.

Prerequisites: Physics 16 or Physics 18a and Mathematics 12 (may be taken concurrently). Physics 17 is desirable but not required.

Half course. Second semester. Tu., 11; Tu. Th., 2. MR. GUNTER

124. FUNDAMENTALS OF ELECTRONICS. This is a first course in electronics designed to give a broad, largely non-mathematical, background for the understanding of electron tubes and their associated circuits. The application of modern electronic devices to the fields of physics, chemistry, biology, meteorology, and navigation is discussed.

Prerequisite: Mathematics 11.

Through the year. Tu. Th. S., 11; Tu. or Th., 2. MR. GUNTER

Omitted, 1947-48.

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

22. Theoretical Mechanics.

Prerequisite: Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. M. W. F., 11. Mr. Roope

23. Electricity and Magnetism. The fundamental laws of electric and magnetic circuits and fields are treated. The elements of electromagnetic wave propagation and their application to antenna design are included in this treatment.

Prerequisites: Physics 11 and Mathematics 12. Mathematics 13 is desirable but not required.

Through the year. Tu. Th. S., 9; Tu. or Th., 2. Mr. Gunter

24. Advanced Electronics. Mr. Gunter

25. Advanced Thermodynamics. Mr. Roope

Omitted, 1947-48.

DEPARTMENT OF PSYCHOLOGY AND EDUCATION

PSYCHOLOGY

Professor Jones, *Chairman,* Professor (*Affiliate*) Weinreb, Professor Werner, Associate Professor Bell, Associate Professor (*Affiliate*) Rodnick, Associate Professor (*Affiliate*) Wyatt, Associate Professor (*Affiliate*) Meyer, Visiting Associate Professor Koch, Assistant Professor Gilson, Assistant Professor V. Johnson, Mr. Hudgins, Mr. Phillips

The psychological laboratories at Clark University were established by G. Stanley Hall immediately after the founding of the university, and constituted one of the first adequately appointed laboratories in this field in America. These laboratories, under the direction of Edmund C. Sanford, and John W. Baird, increased rapidly in size and in research possibilities for experimental psychology. From the outset this research emphasis on experimental psychology was supplemented by work in child study, educational psychology, and mental hygiene by G. Stanley Hall and William H. Burnham. These earlier emphases have stood the test of time and the present interests in the department represent a continuation and development of these earlier emphases. The present major fields of instruction and research are: experimental and physiological, child, educational, and clinical psychology. Instruction in these fields is supported by work in personality and character development, social psychology, applied psychology, tests, and guidance.

UNDERGRADUATE WORK

The aim of the department in its undergraduate work is to give as broad a knowledge as possible of the more significant aspects of psychology. This includes courses leading to graduate work in psychology and also courses involving the application of psychological principles to education and to industry.

Students majoring in the department include those who plan to engage in graduate work in psychology, those interested in general psychology but not contemplating graduate work, and those interested in educational psychology and education. The requirements for each of these classes are somewhat different, and students who are interested should apply to the department for detailed requirements.

GRADUATE WORK

Work is offered in the department leading to the degrees of Master of Arts and Doctor of Philosophy. First year graduate students having had adequate training in psychology as indicated by an undergraduate major in psychology, or in a closely allied field supplemented by work in psychology, may devote full time to graduate courses and research.

The degree of Master of Arts. To qualify for the degree of Master of Arts in psychology the student must demonstrate competence in representative areas of psychology including experimental and statistical method. The customary program is 5 courses, including experimental psychology, statistics, and three additional courses supplemented by the writing of a thesis in the area of special interest.

The degree of Doctor of Philosophy. Only graduate students with superior records are encouraged to become candidates for the degree of Doctor of Philosophy. Such students will devote about half their time to course work and half to research during their second year, and may expect to give the major part of their time to research after the second year. At the end of the second year of graduate work each student must demonstrate his general competence in psychology by passing with distinction preliminary examinations in child, educational, and experimental psychology, in personality dynamics and abnormal behavior. In addition the student is required to demonstrate actual ability to work independently in some field of psychology by conducting original research which usually extends over two years of full time study. (For language and other requirements for the degree, see general requirements for advanced degrees elsewhere in the catalog).

The Program in Clinical Psychology. The department offers a four-year program in clinical psychology leading to the degree of Doctor of Philosophy. For this degree the same standards of proficiency in psychology apply as mentioned above. In addition the student will be required to demonstrate mastery of the use of clinical techniques. To provide instruction in such techniques the department offers courses in clinical methodology with a wide variety of practical experience in coöperating institutions, clinics, and agencies.

One year of internship in a clinical institution is included in this four-year program.

During the first two years the student will include in his program courses basic to a thorough understanding of psychology as well as specialized courses in clinical psychology. He will be required to take the regular preliminary examinations which in this case will include an examination in clinical psychology.

Research for the dissertation should normally be stated during the year of internship and be completed, during the fourth year, at the University.

In this program a Master's degree will be awarded upon the satisfactory completion of two years of study and the presentation of an acceptable thesis. Students who, after an adequate trial during the first semester, are in the opinion of the faculty lacking in the necessary personal qualities for clinical work will be so advised and given an opportunity to adjust their program accordingly.

A Veterans' Administration Guidance Center serving central Massachusetts was organized in connection with the department in November, 1945. Qualified graduate students may have an opportunity for applied psychological work at the Center if their professional qualifications warrant it.

Courses in Psychology

During the academic year 1947-48 the following courses in psychology were given: 11, 190, 200, 201, 203, 204, 209, 210, 212, 214, 30, 301, 302, 305, 313, 316, 318, 321, 323, 331, 339, 340, 350. See also courses in Education.

1. PRIMARILY FOR UNDERGRADUATES

11. General Psychology. An introduction to the principles of human behavior.
Through the year. M. W. F., 10. Mr. Koch

190. Industrial Psychology. The application of psychological techniques to the problems of business and industry.
Through the year. Tu., 3-5; Th., 4-5. Mr. Gilson

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

200. Social Psychology. A survey of current knowledge about the role of the social environment in the determination of individual behavior. The first part of the course is concerned with general behavior processes as influenced by social variables; the second part deals mainly with applied social psychology, particularly propaganda analysis, and the measurement of attitudes and opinion.
Through the year. W. F., 2 - 3:30. Mr. Koch

201b. Educational Psychology. A study of psychological principles as they bear upon learning and other problems of education.
Half course. Second semester. S., 11-1. Mr. Jones

203. Introduction to Clinical and Abnormal Psychology. The first part of the course will be devoted to a study of the development of the normal and abnormal personality and a survey of the

major types of abnormal behavior. The second part will consist of an introduction to clinical methods of diagnosis and therapy.

Prerequisite: Psychology 11.

Through the year. M. W. F., 11. MR. BELL

204. GUIDANCE IN CHILDHOOD AND ADOLESCENCE. Principles involved in vocational, educational, and personality guidance. Methods of guidance in elementary and secondary schools.

Through the year. Tu., 4-6. MR. BELL

209b. DEVELOPMENTAL AND CHILD PSYCHOLOGY. A survey of principles of development and problems of child psychology.

Half course. Second semester. Tu. Th., 11, and an additional hour to be arranged. MR. WERNER

To be offered through the year in 1948-49.

210a. PSYCHOLOGICAL APPROACH TO CITIZENSHIP DEVELOPMENT. A survey and evaluation of the experimental evidence in the field of character and citizenship development among children and adolescents.

First semester. S., 11-1. MR. JONES

To be offered through the year in 1948-49.

212. EXPERIMENTAL PSYCHOLOGY. A general survey of experimental psychology involving detailed experience with laboratory apparatus. Six hours in the laboratory weekly.

Prerequisites: Biology 11, Psychology 11.

Through the year. S., 8-10 and laboratory time to be arranged.
MR. HUDGINS

214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. M., 4-6. MR. JONES

3. PRIMARILY FOR GRADUATE STUDENTS

30. DEVELOPMENTAL PSYCHOLOGY. A study of the laws of development with special emphasis on ontogenesis.

Through the year. Th., 9-11. MR. WERNER

To be omitted in 1948-49.

300. GENETIC PSYCHOLOGY. A seminar in the basic principles of genetic psychology.

Through the year. Th., 9-11. MR. WERNER

301a. ADVANCED CLINICAL PSYCHOLOGY (I). The theory of and supervised practical work in non-projective techniques of psychological diagnosis.

Psychology 318 should be taken concurrently with this course.

First semester. M., 4-6. MR. BELL

301b. ADVANCED CLINICAL PSYCHOLOGY (II). Principles of and practice of casework.

Prerequisite: Psychology 301a.

Second semester. Th., 2-4:30. MR. BELL

302a. ADVANCED CLINICAL PSYCHOLOGY (III). The theory of a supervised practical work in projective techniques of psychological diagnosis.

Prerequisites: Psychology 301a and 301b.

First semester. Th., 2-4. MR. PHILLIPS

302b. ADVANCED CLINICAL PSYCHOLOGY (IV). The theory of and practice in the techniques of integrated clinical analysis.

Prerequisite: Psychology 302a.

Second semester. M., 4-6. MR. PHILLIPS

305. ADVANCED EXPERIMENTAL PSYCHOLOGY. A study of experimental methodology and techniques. In the first semester attention will be given to problems of perception and in the second semester to memory, conception formation and reasoning.

Through the year. W., 7-9 P.M. (Two additional hours in the laboratory weekly). MR. WERNER

313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research. Some attention will be given to setting up research studies involving statistical methods and to interpreting the results.

Through the year. W., 3-5. MR. JONES

316. PHYSIOLOGY APPLIED TO CLINICAL PSYCHOLOGY. Orientation to psychophysiological problems found in a clinical setting. The course includes selected studies from neuroanatomy, clinical neurology, endocrinology, and psychosomatic medicine.
Through the year. F., 10-12. MR. WEINREB
To be omitted in 1948-49. Offered in alternate years.

317. PSYCHOTHERAPY. The course includes a study of various methods of psychotherapy and their application to actual cases.
Through the year. F., 10-12. MR. WEINREB
To be offered in 1948-49. Offered in alternate years.

317. METHODS OF PSYCHOTHERAPY. A critical study of methods of psychological treatment.
Through the year 1948-49. Hours to be arranged. MR. WEINREB

318. DYNAMICS OF PERSONALITY AND ABNORMAL BEHAVIOR. Emphasis will be placed on the dynamics common to both normal and abnormal manifestations of personality defenses. The first part of the course will consist of a consideration of normal personality development and personality theory. The latter part will be devoted to a survey of the main types of abnormal behavior, including psychoses, psychoneuroses, psychosomatic disorders, character disorders, hypnotism and allied phenomena.
Through the year. F., 4-6, and one additional hour to be arranged.
MR. RODNICK

321. CLINICAL CHILD PSYCHOLOGY. Application of developmental concepts and methods in the diagnostic study of the child.
Through the year. Tu., 7-9. MISS MEYER
To be omitted in 1948-49. Alternates with course 322.

322. CASE STUDIES IN CHILD PSYCHOLOGY.
Through the year. Tu., 7-9. MISS MEYER
Omitted, 1947-48. Alternates with course 321.

323. CURRENT LITERATURE AND CASE STUDY IN CLINICAL PSYCHOLOGY. A review in topical sequence of recent articles and books bearing upon the field of clinical psychology. Discussion of diagnostic and therapeutic case material on an advanced level.
Through the year. Th., 7-9. MR. WYATT

331. The Learning Process. A study of the literature on conditioning and learning.
Through the year. F., 7-9 P.M. Mr. Hudgins

339. Theoretical and Systematic Psychology. This course provides: (1) an introduction to the logic and methodology of theory construction in the psychological and social sciences, and (2) an analysis of the techniques of theory construction employed in representative systematic formulations of recent and contemporary psychology.
Through the year. W., 3-5. Mr. Koch

340. Departmental Seminar.
The Staff, Graduate Students, and Visiting Speakers

350. Research in Psychology. Individual direction of students in their research projects.
The Staff of the Department

EDUCATION

Vernon Jones, *Professor of Educational Psychology*
John E. Bell, *Associate Professor of Psychology*

With the coöperation of:

Robert S. Illingworth, *Professor of Dramatic Art*
Henry J. Warman, *Assistant Professor of Geography*

In 1936 the trustees of the university voted the establishment of work in Education leading to the degree of Master of Arts in Education. The essence of the plan was that the professional work of prospective high school teachers should be concentrated largely in one year of graduate work following four years of liberal arts education. During this fifth year the Division of Education aims to provide (1) courses in educational psychology, guidance, and allied subjects, (2) added training in subject-matter in the field in which the student is preparing to teach, and (3) apprenticeship teaching under careful supervision.

It has become increasingly evident that candidates for the bachelor's degree who include a few courses in education in their undergraduate programs are not being adequately prepared to meet the demands for scholarly and professional training required by the better school systems. The fifth year plan is, therefore, recommended to all students who plan to enter the field of teaching at the secondary school level.

UNDERGRADUATE WORK

A limited number of courses will be open to juniors and seniors in the undergraduate division upon the consent of the instructor, but the department recommends that undergraduate students concentrate upon the subject-matter fields in which they desire to teach, reserving for the fifth year the professional work in the theory and practice of education.

In keeping with the general plan to offer in five years a well-rounded program of teacher training with emphasis on the professional aspects of the training in the fifth year, *an undergraduate major in education is not offered.*

GRADUATE WORK

The requirements for the degree of Master of Arts in Education cannot be adequately stated in terms of courses to be taken, because the evaluation of the work of each student will be made on the basis of achievement rather than on the basis of courses completed. However, the minimum essentials in terms of course requirements are outlined below.

Course requirements. The student is expected to elect one of the following groups of studies as the field in which he wishes to teach:

(a) Mathematics and natural sciences
(b) History, geography, and economics
(c) Ancient and modern foreign languages
(d) English, alone or in combination with some related subject.

Prior to receiving the degree, the candidate must complete not less than five year-courses in one of the above groups, or in a combination of groups approved by the Division of Education. At least one of the five year-courses must be taken as a part of the study in residence for the advanced degree and must be passed with a grade satisfactory for graduate credit. In addition to the above requirement in the subject-matter field, eight semester-courses of graduate work in education will normally be required. The program of courses to meet these requirements must be approved in advance by the department. Changes in the proportion of education and subject-matter courses may be made by the department on the basis of the candidate's previous training. Work, additional to the above requirements, either in the subject-matter field or in education, or both, may be required if this seems necessary for the adequate preparation of the candidate.

Thesis. The candidate must present a "thesis," or "special report," in which he demonstrates not only his grasp of the subject-matter which he plans to teach but also a mastery of the educational principles necessary for such teaching. The thesis will be adapted to the vocational needs of the candidate and will not be regarded as an index of his capacity for research. In this respect it may differ somewhat from the thesis required of candidates for the degree of Master of Arts in other fields.

COURSES IN EDUCATION

2. FOR ADVANCED UNDERGRADUATES AND GRADUATE STUDENTS

PSYCHOLOGY 201b. EDUCATIONAL PSYCHOLOGY. A study of psychological principles as they bear upon learning and other problems of education.

Half course. Second semester. S., 11-1. MR. JONES

EDUCATION 202. HISTORY OF EDUCATION. A study of the relationship between society and its educational agencies. One of the main purposes of the course is to help prospective teachers assess the strengths and weaknesses of our educational traditions.

Through the year. M. W. F., 8. MR. V. JOHNSON

PSYCHOLOGY 204. GUIDANCE IN CHILDHOOD AND ADOLESCENCE. Principles involved in vocational, educational, and personality guidance. Methods of guidance in elementary and secondary schools.

Through the year. Tu., 4-6. MR. BELL

EDUCATION 205a. THE TEACHING OF ENGLISH. Methods of teaching poetry, drama, novel, short story, oral and written composition.

Half course. First semester. M., 4-6. MR. ILLINGWORTH
To be offered in 1948-49.

EDUCATION 208a. PRINCIPLES OF EDUCATION. A survey of the major objectives of education, the special functions of the secondary school, and the principles which underlie the learning and teaching process.

Half course. First semester. M. W. F., 12. MR. V. JOHNSON

EDUCATION 208b. METHODS IN SECONDARY EDUCATION. A study of techniques of classroom management, instructional planning, and methods in secondary school work. The personality of the teacher, the physical conditions under which he works, and routine organization are all related and recognized as part of the problem of classroom teaching.

Half course. Second semester. M. W. F., 12. MR. V. JOHNSON

PSYCHOLOGY 210a. PSYCHOLOGICAL APPROACH TO CITIZENSHIP DEVELOPMENT. A survey and evaluation of the experimental evidence in the field of character and citizenship development among children and adolescents.

Half course. First semester. S., 11-1. MR. JONES
To be offered through the year in 1948-49.

PSYCHOLOGY 214. TESTS AND MEASUREMENTS APPLIED TO PSYCHOLOGICAL AND EDUCATIONAL PROBLEMS. A study of the measurement of aptitude, achievement, interest and attitude. Theoretical considerations and practical problems will be included.

Through the year. M., 4-6. MR. JONES

GEOGRAPHY 20b. GEOGRAPHY IN EDUCATION. A survey of geography in the present-day American schools. The course is designed to meet the needs of those expecting to teach geography.

Half course. Second semester. M., 4-6. MR. WARMAN
Omitted, 1947-48. Offered in alternate years.

3. PRIMARILY FOR GRADUATE STUDENTS

EDUCATION 308a. PRINCIPLES OF SECONDARY EDUCATION. A survey of the aims, responsibilities, and general methods in secondary education.

First semester. MR. JONES

PSYCHOLOGY 313. STATISTICAL METHODS. The purpose of this course will be to give an understanding of and practice in the statistical methods most valuable in psychological research. Some attention will be given to setting up research studies involving statistical methods and of interpreting the results.

Through the year. W., 3-5. MR. JONES

EDUCATION 315a. APPRENTICESHIP TEACHING. An informal course consisting of extensive practice teaching in the field or fields in which the student plans to teach. Individual supervision is given by the department and by critic teachers in coöperating schools.

First semester. Time to be arranged.

MR. JONES AND CRITIC TEACHERS

DEPARTMENT OF ROMANCE LANGUAGES

VISITING PROFESSOR NICOL, ASSISTANT PROFESSOR REID, ASSISTANT PROFESSOR KING, MISS WAWRZYNIAK, MR. MACQUEEN

Courses offered in the languages and literatures of France, Spain, and Spanish America have been planned to provide:

1) an adequate foundation for graduate study or teaching either French or Spanish, or both;

2) an extensive reading knowledge of both languages, essential for carrying on advanced study in natural sciences, social sciences, and the humanities, and for fulfilling the language requirement for the degree of Bachelor of Arts;

3) a competent speaking knowledge of both languages, facilitated by speaking approach courses at the elementary level and by more advanced courses and group meetings affording opportunity for practical use of the languages.

A "major" in Romance Languages should comprise:

1) Four full courses to be chosen from among the following:
    French 114, 123b, 125, 126
    Spanish 114, 115, 123b
    Romance Languages 124a
2) French 113 *or* Spanish 113 or the equivalent.
3) History 11, to be completed by the end of the sophomore year.
4) at least one course, to be approved by the department, in non-Romance literature.

Students majoring in Romance Languages are expected to acquire a thorough knowledge of either French or Spanish and a competent, knowledge of the other, both in language and in literature. Attention is called to the requirement that language majors who do not present a minimum of two years of Latin or Greek for entrance must take a course in one or the other of these languages during the freshman year.

Students desiring a degree with honors in Romance Languages should consult with the department for a statement of the required program of studies.

FRENCH

During the academic year 1947-48 the following courses in French were given: 11, 12, 13, 14, 114, 125.

1. PRIMARILY FOR UNDERGRADUATES

11. ELEMENTARY. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading; exercises in speaking and writing simple French.

Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 8 and 11; M. W. F., 9.

MR. KING AND MISS WAWRZYNIAK

111. ELEMENTARY—SPEAKING APPROACH. Double credit course for beginners. Active use of spoken French, under the direction of a native drillmaster, accompanied by grammatical analysis and prac-

tice in direct reading. Grammar sessions 2 hours, practice sessions 3 hours, laboratory sessions 3 hours. Course 111 prepares for admission to course 13 or 14.

Indivisible course.

Open to freshmen, subject to approval of instructor.

Through the year.

Omitted, 1947-48. Offered when the demand warrants.

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading in a variety of modern texts.

Prerequisite: French 11 or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 8 and 12; Tu. Th. S., 9.

MISS WAWRZYNIAK AND MR. MACQUEEN

112. INTERMEDIATE—SPEAKING APPROACH. Intensive conversational practice under the direction of a native drillmaster, review of grammar, exercises in composition and pronunciation, intensive reading in a variety of modern texts.

Prerequisite: Grade of B— or higher in French 11, or the equivalent, to be determined by a placement test.

Open to freshmen, subject to the approval of the instructor.

Double course. Through the year. MR. REID

Omitted, 1947-48. Offered when the demand warrants.

13. THIRD-YEAR ORAL AND WRITTEN FRENCH. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in French.

Prerequisite: Grade of B— or higher in French 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. M. F., 12 and W., laboratory 1 to 3.

MR. REID

14. READINGS IN FRENCH LITERATURE. The aim of French 14 is two-fold: the attainment of facile reading ability and the appreciation of at least ten works selected from various periods and chosen for their literary excellence and universal appeal.

Prerequisite: French 12 or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. Tu. Th. S., 8 and 10. MR. NICOL

113. INTRODUCTION TO FRENCH CIVILIZATION. A selective survey of the history, art, literature and music of France, from the Middle Ages to the present time. Ordinarily it is expected that students will have completed French 14 before taking this course, inasmuch as a reading knowledge of the language is highly desirable.

French 113 may be counted in fulfillment of the general requirement in art, music and literature, but not in fulfillment of the requirement in foreign language.

Through the year. MR. NICOL

Omitted, 1947-48. To be offered in 1948-49.

114. GENERAL VIEW OF FRENCH LITERATURE. A unified and fairly complete survey of French literature from the beginnings to the present time.

Prerequisite: Grade of B— or higher in French 13 or 14 or the equivalent.

Through the year. M. W. F., 10. MR. NICOL

125. PRINCIPAL PROSE GENRES. Detailed study of the novel, the short story and the essay, as exemplified by the chief works in each genre from the Middle Ages to the present. Some attention will also be given to the writers of maxims, memoirs and letters. Conducted in French.

Prerequisite: Grade of B— or higher in French 114 or the equivalent.

Through the year. M. W. F., 9. MR. NICOL

To be omitted in 1948-49. Offered in alternate years.

126. French Poetry and Drama. Intensive study of the principal monuments of each genre, from the Middle Ages to the present. Conducted in French.

Prerequisite: Grade of B— or higher in French 114 or the equivalent.

Through the year. Tu. Th. S., 10. Mr. Nicol

Omitted, 1947-48. Offered in alternate years.

123b. Advanced Language. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B— or higher in French 13 or 112. Romance Languages 124a is desired but not required.

Half course. Second semester. W. F., 9; a third hour to be announced. Mr. Reid

Omitted, 1947-48. Offered in alternate years.

124a. Romance Languages. Comparative French and Spanish Phonetics. The elements of general phonetics. A detailed study of the sounds of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisites: Grade of B— or higher in French 13 or 112, or Spanish 13.

Half course. First semester. M. W. F., 12. Mr. Reid

Omitted, 1947-48. Offered in alternate years.

SPANISH

During the academic year 1947-48 the following courses were given: 11, 12, 14, 114.

1. PRIMARILY FOR UNDERGRADUATES

11. Elementary. For beginners. The elements of grammar and pronunciation; extensive, carefully graded reading in both the Spanish and Spanish-American fields. Exercises in speaking and writing.

Indivisible course.

Open to freshmen.

Through the year. M. W. F., 11; Tu. Th. S., 11.

Mr. Reid, Miss Wawrzyniak and Mr. MacQueen

111. ELEMENTARY—SPEAKING APPROACH. Double credit course for beginners. Active use of spoken Spanish, under the direction of a native drillmaster, accompanied by grammatical analysis and practice in direct reading. Grammar sessions 2 hours, practice sessions 3 hours, laboratory sessions 3 hours. Course 111 prepares for admission to course 13 or 14.

Indivisible course.

Open to freshmen, subject to the approval of the instructor.

Through the year.

Omitted, 1947-48. Offered when the demand warrants.

12. INTERMEDIATE. Review of grammar, exercises in composition and pronunciation, intensive and extensive reading of texts dealing with Spain and Spanish America.

Prerequisite: Spanish 11, or the equivalent, to be determined by a placement test.

Indivisible course.

Open to freshmen.

Through the year. Tu. Th. S., 8 and M. W. F., 9.

MR. REID AND MR. KING

13. THIRD-YEAR ORAL AND WRITTEN SPANISH. A rapid intensive review of grammar; the elements of phonetics; exercises in composition and pronunciation; conversational practice. Course 13 is conducted largely in Spanish.

Prerequisite: Grade of B— or higher in Spanish 12, or equivalent skill in the language, to be determined by a placement test. Admission is subject to the approval of the instructor.

Open to freshmen.

Through the year. Two one-hour meetings and one two-hour afternoon laboratory. MR. KING

Omitted, 1947-48. Probably to be offered in 1948-49.

14. READINGS IN SPANISH AND SPANISH-AMERICAN LITERATURE. The aim of Spanish 14 is two-fold: the attainment of facile reading ability and an appreciation of some outstanding examples of Spanish and Spanish-American literature.

Prerequisite: Spanish 12, or the equivalent, to be determined by a placement test.

Open to freshmen.

Through the year. M. W. F., 9 and 10. MR. MACQUEEN

113. INTRODUCTION TO LATIN-AMERICAN CIVILIZATION. A survey of art, history, and literature of the Latin-American countries from pre-conquest times to the present day. Ordinarily it is expected that students will have completed Spanish 14 before taking this course, inasmuch as a reading knowledge of the language is highly desirable.

Spanish 113 may be counted in fulfillment of the general requirement in art, music and literature, but not in fulfillment of the requirement in foreign language.

Omitted, 1947-48. Offered when the demand warrants.

114. THE LITERATURE OF SPAIN. A general view of Spanish literature with emphasis on the study of the origins and development of the novel and drama, culminating in the masterworks of the nineteenth century. Necessary attention will be given to political and cultural background.

Prerequisite: Grade of B— or higher in Spanish 13 or 14 or the equivalent.

Through the year. M. W. F., 11. MR. KING

115. SPANISH-AMERICAN LITERATURE. The principal literary trends in Spanish America from the colonial period to the present day. Special emphasis will be placed on novels and short stories important to the understanding of the nature and problems of life in Latin America.

Prerequisite: Grade of B— or higher in Spanish 13 or 14, or the equivalent.

Through the year. Tu. Th. S., 11. MR. KING

Omitted, 1947-48. Offered when the demand warrants.

123b. ADVANCED LANGUAGE. Advanced composition and special study of grammatical topics.

Prerequisite: Grade of B— or higher in Spanish 13, and preferably Romance Languages 124a.

Half course. Second semester.

Omitted, 1947-48. Offered when the demand warrants.

ROMANCE LANGUAGES 124a. COMPARATIVE FRENCH AND SPANISH PHONETICS. The elements of general phonetics. A detailed study of the sounds of French and Spanish. A required course for majors who wish to be recommended for teaching either language.

Prerequisite: Grade of B— of higher in French 13 or 112, or Spanish 13.

Half course. First semester. M. W. F., 12. MR. REID

Omitted, 1947-48. Offered in alternate years.

COURSES IN SOCIOLOGY

A description of the offerings in Sociology and a list of courses in Sociology will be found in the announcement of the Department of Economics and Sociology.

COURSES IN SPANISH

A description of the offerings in Spanish and a list of courses in Spanish will be found in the announcement of the Department of Romance Languages.

The Summer Term

First Session, June 7 to July 16
Second Session, July 19 to August 27

A six-week summer school was established in 1921, primarily to serve teachers who were employed during the regular academic year. Its organization and its offerings were relatively independent of the general university program.

The national emergency beginning in 1941 made it necessary to provide opportunities for college students to complete their requirements for a bachelor's degree in as short a time as possible. Accordingly the summer session was lengthened to twelve weeks and made an integral part of the college program. *It is expected that the twelve-week summer term will be discontinued after 1949.*

Teachers who wish to attend the summer school for six weeks will find many courses suited to their needs during the second session.

Instruction is offered in all subjects usually included in the undergraduate or graduate programs for which there is sufficient demand.

Work done in the summer term may be counted toward the fulfillment of the requirements for the degrees of Bachelor of Arts, Bachelor of Business Administration, Bachelor of Education, Master or Arts, and Doctor of Philosophy. A graduate student should secure explicit approval of his major department for any program undertaken during the summer term.

Unless otherwise announced, subjects are presented in courses or half courses. A course, equivalent to six semester hours, involves five sixty-minute meetings per week, or their equivalent, throughout twelve weeks. A half course extends through six weeks. A normal program will be two subjects carried concurrently.

Tuition charges, for a normal program, are $152.00 for the term of twelve weeks, or $76.00 for each session of six weeks. The charge for other programs is at the rate of $76 per "course", $38 per "half course".

Dormitory accommodations for both men and women are available at reasonable rates.

The first session is designed primarily for college students who will remain through the entire term of twelve weeks. However, any qualified person may be admitted to this session.

The second session has the additional purpose, as has been stated, to serve the group which under normal conditions would attend a summer school for six weeks, beginning about July 4. Many of the undergraduate courses have been planned so that they may be entered at the opening of the second session.

The completion of a high school course or its equivalent is a prerequisite for admission to the summer school.

The Summer Term Bulletin contains detailed information about the coming term with descriptions of the various courses, and may be had upon application to The Dean of the College, Clark University, Worcester 3, Massachusetts.

Courses Offered in the Summer Term

Courses are identified by number. The letters "a" and "b" following a course number indicate that the course is offered for the first session or for the second session respectively. Any particular course bears the same identifying number whether it is offered during the regular academic year or in the summer term. Courses primarily for undergraduates have numbers beginning with the figure "1," those for advanced undergraduates and graduate students, with the figure "2," and those primarily for graduate students, with the figure "3."

The following courses were given during the 1947 summer term.

BIOLOGY

ST11.	General Biology.	Mr. Nunnemacher and Mr. Potter
ST17a.	Embryology.	Mr. Nunnemacher
ST18b.	Genetics.	Mr. Potter

BUSINESS ADMINISTRATION

ST17.	Public Speaking.	Mr. Illingworth
ST18.	Business Organization and Finance.	Mr. Lucas
ST127.	Intermediate Accounting.	Mr. Hargest
ST181a.	Industrial Management.	Mr. Hargest
ST182b.	Office Management.	Mr. Hargest

CHEMISTRY

ST11.	General Chemistry.	Mr. MacGillavry
ST12a.	Qualitative Analysis.	Mr. Martin
ST13a.	Chemical Principles.	Mr. Martin
ST14b.	Quantitative Analysis.	Mr. Martin
ST15.	Elementary Organic Chemistry.	Mr. Martell and Mr. Martin
ST110a.	Organic Synthesis and Analysis.	Mr. Martell

ECONOMICS

ST11.	Principles of Economics.	Mr. Brandenburg and Mr. Hall
ST22.	Labor Problems.	Mr. Brandenburg and Mr. Hall
ST26.	Government and Industry.	Mr. Lucas

ENGLISH

ST12.	Public Speaking.	Mr. Illingworth
ST16a.	Advanced Composition.	Mr. Moore
ST13b.	Shakespeare.	Mr. Anderson
ST111b.	A Survey of American Literature.	Mr. Anderson
ST117a.	Romantic Poetry.	Mr. Moore

FRENCH

ST12.	Intermediate French.	Mr. Nicol and Miss Wawrzyniak
ST14.	Readings in French Literature.	Mr. Nicol and Miss Wawrzyniak

GEOGRAPHY

ST10.	Principles of Geography.	Mr. Warman
ST191.	Cartography and Graphics.	Mr. Burnham
ST20b.	Geography in Education.	Mr. Warman
ST27b.	Cultural Geography.	Mr. Ekblaw

ST282a.	Geography of North America.	Mr. Warman
ST283b.	Geography of South America.	Mr. Warman
ST286b.	Geography of Pacific Asia.	Mr. Van Valkenburg
ST32b.	Regional Climatology.	Mr. Van Valkenburg
ST33b.	Soil Geography.	Mr. Ekblaw

GERMAN

ST11.	Elementary German.	Mr. Bosshard
ST12.	Intermediate German.	Mr. Palmer
ST13.	Readings in German Literature.	Mr. Palmer

HISTORY AND INTERNATIONAL RELATIONS

ST10a.	History of Political Institutions in the United States.	Mr. Campbell
ST12b.	American Government.	Mr. Hayden
ST23b.	American Diplomatic History.	Mr. Hayden
ST242a.	The United States in the Twentieth Century.	Mr. Campbell

MATHEMATICS

ST12.	Analytical Geometry and Introduction to Calculus.	Mr. Melville
ST13.	Calculus and Differential Equations.	Mr. Melville

PSYCHOLOGY AND EDUCATION

ST11.	General Psychology.	Mr. Brown
ST212a.	Experimental Psychology.	Mr. Brown
ST205b.	The Teaching of English.	Mr. Parker
ST208b.	Principles and Methods in Education for Citizenship.	Mr. Jones
ST214b.	Tests and Measurements Applied to Guidance.	Mr. Jones

SPANISH

ST12.	Intermediate Spanish.	Mr. Reid and Mr. King
ST14.	Readings in Spanish and Spanish-American Literature.	Mr. Reid and Mr. King

The Degree of Bachelor of Education

The Degree of Bachelor of Education has been offered primarily to teachers in the Worcester school system and to those in nearby towns since 1923. A condition for admission to candidacy for the degree is completion of a two-year normal school course, or its equivalent. A year of professional, full-time teaching experience is a prerequisite for the degree.

Since the establishment of the State Teachers College in Worcester the reasons for offering this degree have largely ceased to exist, and there has been a material shrinkage in the number of candidates.

At present new candidates may be accepted, if at all, only after special action.

Degrees Conferred

In the Calendar Year 1947

BACHELOR OF ARTS

Herbert Irving Abelson
George Adamian
Edmond Samuel Adams
John Winfield Allen, Jr.
Priscilla Marie Anderson
Joan Arbour
Chris Argyris
Robert Nelson Beck
Russell Anthony Benigno
Muriel Louise Bergstrom
(With honor in general course)
Seymour Berman
Howard John Besnia
Margaret Elaine Bird
William Gardner Blount
Robert Edward Braman
Betty Brearley
Carolyn Jean Burns
Gloria Chigas
Cynthia Coghlin
Stuart Mitchell Cohen
Cecile Elizabeth Craig
(With honor in general course and honors in History and International Relations)
Mildred Hart Craig
Alfred Freeman Crommett
Paul Clement Dalrymple
Aldona Davidonis
John Lovewell Day
Stephen DelRosso
Hagop Deranian
Richard Henry Desroches
(With high honor in general course and honors in Romance Languages)
Gareth Winthrop Dunleavy
John Roland Easton
Richard Baker Ellis
Robert Benjamin Factor
Eleanor Aileen Finneran
(With honors in Romance Languages)
Robert Edward Freeman
Irma Gloria Frey
Paul Joseph Gardner
Jesse Arthur Gates
James Arthur Gilmore
Raymond Eugene Glazier
Harriet Seder Goldstein
Howard Leon Green
Raymond Louis Grenier
Benjamin John Gudzinowicz
Ruth Ellen Haddad
Everett John Hammarstrom
Frank Henry Healy, Jr. Ⓔ
Warren Emil Hultquist
Richard Errol Jackson
Theodore Burton Jacobs
Marie Loff Jameson
(With honors in Romance Languages)
Kathryn Ann Jerome
Robert Lincoln Jordan
Mendel Joseph Kaufman
(With honor in general course)
Frederick Dale Kellermann
Mary Campbell Kellermann
Engbert Jan Coen Kiewiet de Jonge
Richard Hardie Kilpatrick, Jr.
Joseph John Kouri
Estelle Adelle Mary Lavoie
David Richards Lennan
Frank Michael Lenti
Ralph Francis Lumb
Italo Alden Macchi
Warren Read Magoun
Otto Russell Mauke
(With honor in general course)
Charles William McNamara
John Webster McNamara
Shirley Miriam Michelman
Drusilla Monroe
Paul Julian Nelson
Howard Leonard Ohman
(With high honor in general course)
Donald Walter Osten
Marguerita Pantos
Julia Rose Pileggi
Charles William Porter
Andrew George Priest
Robert Benjamin Resnick
Geraldine Elizabeth Rice
(With honor in general caurse and honors in Romance Languages)
Donald Harding Sampson
Keith Morton Schneider
John Schollard

Kenneth Alton Senter
William Vincent Shannon
(With high honor in general course and honors in History and International Relations)
Richard James Shields
Louis John Shopes
Joseph Edward Silverberg
Paul Edward Simpson
James Pious Singer
James Horace Sloan
Elizabeth Smith
(With high honor in general course and honors in Psychology)
Marilyn Ethel Smith
Hannah Sommerstein
George John Stessel
(With honor in general course)
Allison Page Stevens
Winifred Louise Stuebi
Joseph Gene Sullo
Pauline Mae Tait
Louise Theodore
William Owen Travers, Jr.
Jean Wishart Tuttle
Melvin Charles Van de Workeen
Harold Hamilton Wade, Jr.
Mona Weiser
Anthony Joseph Zulieve

BACHELOR OF BUSINESS ADMINISTRATION

Frances Jane Dumas
Edward John Gately
Harold Emerson Joudrey
Henry Victor Karolkewicz
Bernard James LaPlante
Jacob Merzigian
Kenneth Oscar Nelson
Paul Edward Nelson
Everett Renhult Nordstrom
Frank Anthony Nicholas Papale, Jr.
Alex Michael Pappas
George Louis Philip
Arthur Anton Prue
Harold Irving Sherman
Nicholas Stavrianos
Harold Hamilton Wade, Jr.
Howard Wright Whitney

BACHELOR OF EDUCATION

Frances Olive Gilligan

MASTER OF ARTS

Margaret Mary Ahearn
Clarence Wilton Baier, Jr.
Dorothea Edythe Burton
Everett Homer Bush
Charles Hannaford Cook
Francis James Deignan
Mary Eleanor DeMille
John Eaves, Jr.
Fred Elmadjian
Ellen Anne Elste
Edmond Leon Escolas
Ann Janet Finkenberg
Stanley Parker Hull
Edward Yervant Kalpakian
John Joseph Killoran
Mali Korgen
Eda Joan LeShan
Raymond Joseph Marion
Wallace Edward McIntyre
Guy Norris Parmenter
George Edward Passey
Harold James Retallick
Bruno Rumpal
John Jacob Singer, Jr.
Raymond Edwin Specht
Esther Marie Wahlstrom
Milton Gershon Weiner
Walter Oddmund Wick
Clarence Stewart Williams
William Michael Zarrella

MASTER OF ARTS IN EDUCATION

Sumner Slobin Berlyn
Lillian Cecile Carroll
George Kalil
Joseph Timothy Kenneally
Knute Gunnar Alfons Larson
James Arthur Norton, Jr.
Stephen Joseph Roycewicz
Matthew Stepanski
Harry Zohn

DOCTOR OF PHILOSOPHY

Ivan J. Birrer
Edwin Kenneth Carpenter
Walter Lawrence Foy
Gabriel Anthonie LeRoux
Leo William Ziemlak

HONORARY DEGREES

Robert Fiske Bradford	Doctor of Laws
John Mason Brown	Doctor of Letters
Alexander Hamilton Bullock	Doctor of Laws
Edward Bates Peck	Doctor of Science
Thomas Sherrard Roy	Doctor of Humane Letters
Charles Bunsen Shaw	Doctor of Humane Letters

SUMMARY

Degrees in Course		*Honorary Degrees*	
Bachelor of Arts	105	Doctor of Laws	2
Bachelor of Business Administration	17	Doctor of Letters	1
Bachelor of Education	1	Doctor of Science	1
Master of Arts	30	Doctor of Humane Letters	2
Master of Arts in Education	9		
Doctor of Philosophy	5		

Register

Names of students are grouped in three lists. I, graduate students, undergraduate students, and special students in attendance during the regular academic year 1947-48; II, those who attended the 1947 Summer Term; III, students who withdrew after a short time in residence, 1947-48.

I. GRADUATE STUDENTS, COLLEGE STUDENTS AND SPECIAL STUDENTS IN ATTENDANCE DURING THE REGULAR ACADEMIC YEAR

Explanation: S—scholar; F—fellow; numerals 48, 49, 50, and 51, are used to classify undergraduates; g—students formally admitted to the graduate division; s—special students; BE—candidates for degree of Bachelor of Education; B—biology; BA—business administration; Ch—chemistry; CL—classical languages; Ec—economics and sociology; Ed—education; En—English; FA—fine arts; Ger—German; G—geography; H—history and international relations; Ph—physics; Ps—psychology; RL—romance languages.

State omitted—Massachusetts; town omitted—Worcester; street names refer to streets unless otherwise indicated.

The list includes the names of all who have matriculated and registered. An asterisk (*) indicates a student not in residence for the entire year. A dagger (†) indicates a student entering at the beginning of second semester.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Abbot, Florence Arvidson	Ed g	North Brookfield	
Abeles, Robert Arent	50		21 Havelock Rd.
Abrahamson, Sherman Raymond	G g		28 William
Adams, Elaine Frances	51	Lowell	Woodland Hall
Adams, Theodore Francis	51		28 Suffield
Addington, Lloyd Byron, Jr.	49	Memphis, Tenn.	20 Gates
Adrian, Richard Francis	49		28 Commonwealth Ave.
†Agamia, M. Abdel-Aziz	G s	Alexandria, Egypt	48 Downing
Agulnick, Sidney	50		20 Granite
Ahlstrom, John Russell	48		158 Belmont
Aldrich, Charles Raymond	50		10 Bluebell Rd.
Aldridge, Dorothy H.	Ed g	Highland Park, Ill.	7 Clifton Ter.
Alexander, Lewis McElwain	G g	East Dennis	20 Gates
Allegrezza, Nello Alfred	48	Milford	16 Marble
Allen, Elisabeth	50	Shrewsbury	
Allstrom, May Ingrid	50	Auburn	
Altobelli, Richard Joseph	49	Leominster	156 Woodland
Amback, Reginald, Jr.	48		122 West
Ambrosini, Dario Mario	50		231 Park Ave.
Amidon, Dorothy Alice	Ed g		18 Sunnyhill Dr.
*Amidon, Nancy Eleanor	51		761 Grove
Amsden, Carol Theresa	50		159 Highland
Amsden, Virginia Rita	50		159 Highland
Anderson, Charles Oscar, Jr.	50	Holden	
Anderson, Donald Fernland	48		56 Holden
Anderson, George William	H g	Northboro	
Anderson, Janet Marie	50	Naval Base 55, S. C.	Blakeslee Hall
Anderson, Jean Harriet	50		43 Tower
Anderson, John Henry	49	Shrewsbury	
Anderson, Roger Burnett	50		11 Prospect
Andreson, Nicholas Ernest	51		712 Pleasant
Antzes, Barbara Irene	49	New London, Conn.	Fanning Hall
Aramony, William	50		509 Grafton
Archambault, John Joseph	50		4 Woodbine
Armenti, Ralph Angelo	50		277 Shrewsbury
Arnold, Bernard	48		148 Elm
Aronoff, Richard Newell	49	Winchendon	
Aronson, Marietta	51	Westboro	Fanning Hall
Ash, Margaret Mary	50		365 Cambridge
Asher, Norman Bennett	48		99 Coolidge Rd.
Askling, Paul Herbert	51	Leicester	
†Atrushi, Siddik Abdul Rahman	G g	Dehawk, Iraq	41 King
Atwood, Ruth Joy	49	Spencer	
Audette, Doris Gertrude	49		43 Charlotte
Babigian, Vasgen	51		13 Bancroft
Babineau, Alexis Adrian	Ch g		Assumption College

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Babson, William Arthur	50	South Orange, N. J.	21 Shirley
Bachand, Clifford Brodeur	48		70 Lovell
Bachelder, Beatrice Ann	51		16 Oliver
Bagni, Stuart R.	51	Haverhill	Estabrook Hall
Baird, Malcolm Everett	48, Ed g		71 Olean
Baker, Stephen Hopkins	49		5 Vincent Ave.
†Ballan, Emil	49		32 Norfolk
Banks, Donald A.	51		56 Fairfax Rd.
Barbosa, José Celso	51	San Juan, P. R.	Estabrook Hall
Barrett, James Joseph, Jr.	49		5 Lucian
Barron, Rae Thayer	51		208 Highland
Barsoum, Peter, Jr.	49		183 Austin
Bartlett, Hollis Manning	51		92 Coburn Ave.
Bartuska, Dolores Ann	51	Nanticoke, Pa.	Fanning Hall
Basiul, Walter Joseph	48		56 Perry Ave.
Baskin, Myron Adelbert	H g	Kenmore, N. Y.	20 Ripley
Bastille, Anne Geraldine	51		211 June
Bastille, John George	51	Winchendon	27 Tirrell
Baum, Bernard	Ch g	Brookline	53 Charlotte
Baxter, Lauren Earl	49	Sloansville, N. Y.	40 Richards
Beach, Alice Cary	51		61 Elm
Beaudry, René Paul	50		44 Collins
Beck, Paul Victor	48		46 Wachusett
*Begley, Jean Elizabeth	En s		59 Berwick
Belden, Robert Dorr	51	Petersham	
Belles, Earl Melvin	48		1264 W. Boylston
Bellinger, Frank Howard	G g		12 Intervale Rd.
Beloff, Marvin Walter	50	Meriden, Conn.	36 Richards
Benson, Herbert H.	48	Uncasville, Conn.	40 Richards
Berg, Burton F.	51		10 Tahanto Rd.
Bergstrom, Evelyn Mae	51	Millbury	
Berkeley, Austin West	Ps g		38 Dustin
Berkes, William Joseph	50	Floral Park, L. I., N. Y.	11 Dunbar
Bernatowicz, Albert John	48		77 Sterling
Bernklow, Rodger Douglas	50	Thompson, Conn.	
Berthiaume, Joseph Omer	51	Southbridge	
Berthiaume, Raymond Ovila	51		19 Grand
Bibeau, Robert Wesley	49		49 Pilgrim Ave.
Biedrzycki, Raymond Francis	Ed g	Mendon	
Birnbaum, Syma C.	49	Dorchester	Fanning Hall
Blackington, Robert Oliver	50	Needham Heights	39 Shirley
Blackwell, Amelia Alvord	Ps g	Bridgeport, Conn.	Worc. State Hosp.
Blais, Frederick William	51	W. Stewartstown, N. H.	Estabrook Hall
*Blaker, Robert Gordon	51	Auburn	
Blount, William G.	H g	Northboro	
*Blue, James Leonard	50	Harvard	4 Pelham
Blume, Geraldine Irma	49	Derby, Conn.	Woodland Hall
Boch, Oliver Wendell	50		1 Circuit Ave.
Bogosian, Paul	48		396 Park Ave.
Bolen, Jean Louise	50		132 Russell
*Bonfeld, David	H g	New York, N. Y.	74 Florence
Booth, A. Royal	51	Auburn	
Booth, Hichell Burton	50	Brooklyn, N. Y.	35 May
Bortman, David Richard	48	Dorchester	6 Charlotte
Boudreau, Florence Agnes	50		71 Gates
Bourque, Ellsworth Joseph	Ps g	Princeton	
†Bouve, Ruth Cabot	51		14 Richmond Ave.
Bowes, Thomas Edwin	Ps g		9 Crystal
Bowker, Glenis	49	Shrewsbury	
Boxshus, John Peter	49		10 Ellsworth
Boyden, Helen Rose	51		81 Downing
Boynton, Stanley Melvin	49	West Boylston	
†Branagan, Francis Carr	51		150 Mayfield
Brickley, Charles Newton	H F	E. Providence, R. I.	16 Marble
Brigham, Donald Logan	49	Sutton	
Brodeur, Richard Romeo	50	Putnam, Conn.	
Brodsky, Barbara Ellen	48		100 Granite
Brooks, Harriet	48		78 May
*Brooks, Robert Allen	51	Princeton	
Brotherton, William Richard	H g		18 Hitchcock Rd.
Brown, Bernice Eululoo	50	Grafton	
Brown, Richard Carson	48		7 Marcy
Brown, William Joseph	50	Shrewsbury	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Brunet, Michel	H g	Montreal, Canada	51 Gates
Bubar, Patricia Virginia	49	Holden	
Buccini, Romeo	Ps g	Medway	
Buchyn, Joseph John	51		6 Gold
*Buckley, James Thomas, Jr.	50		122 Woodland
Buddy, Jean Walker	51		31 Pomona Rd.
Bugbee, Betty Elaine	49	Oxford	
Bugbee, Francis Patrick, Jr.	50	West Brookfield	
Burack, Joseph	49		14 Wabash Ave.
Burke, Beatrice Lillian	G g	Duluth, Minn.	7 Clifton Ter.
Burke, Charles Stephen	50	Marlboro	
Burman, Savitri	G F	New Delhi, India	10 Chatham
*Burstein, Harold Melvin	51		4 Intervale Rd.
Burton, Dorothea E.	G g	Buffalo, N. Y.	24 Gates
Butenas, Carl	49	Gardner	325 Greenwood
Butler, Franklin Coit, Jr.	Ps g	Providence, R. I.	
Butler, Therese Imelde	49		81 Kenwood Ave.
Butterfield, Ruth A.	48	Westminster	Woodland Hall
Buzzard, Henry Lewis	G g	Charleston, Ill.	130 Maywood
Caefer, Raymond John	50		7 Cutler
Cahill, Henry Eugene	51	Livingston, N. J.	17 Isabella
Caisse, Shirley Mary	48	Millbury	
Caldwell, Harry Harrison	G g		86 Houghton
Callan, Barbara Ann	49		67 Fairfax Rd.
Callender, Joseph Holligan	48		4 Pelham
Camp, Edward C., Jr.	49		2 Claremont Sq.
Capen, William Melvin	50		110 June
Cardozo, Robert Lopes	48	Kew Gardens, N. Y.	73 Richmond Ave.
Carey, Robert H.	49	Front Royal, Va.	11 So. Flagg
Carini, Louis Peter	49	Framingham	
Carlisle, Robert	50		28 Irving
Carlson, Ruth Eleanor	49		19 Adelle Cir.
Carlson, Torsten Allen	50		5 Marconi Rd.
Caron, Blanche Ellen	50	East Millbury	
Carpenter, Edwin Kenneth	Ps F	Fort Devens	
Carraher, Eugene Francis	48	Kankakee, Ill.	40 Richards
Carruth, William Glenn	48	Shrewsbury	
Carruthers, John B.	Ed g	Framingham	74 Florence
Carswell, Catherine Ann	49	Glens Falls, N. Y.	Fanning Hall
Carvalho, Vincent George	48	East Pepperell	20 Gates
Castriotta, Raymond Joseph	51	Leominster	
Castro, Carlos Manuel de	51	New York, N. Y.	Estabrook Hall
Chaberek, Stanley, Jr.	Ch g	Webster	
Chaffee, Florence Luela	50	Swanton, Vt.	Fanning Hall
Chaffin, Charles Edward	H g	Wichita, Kan.	766 Main
Chafitz, Herbert David	50		20 Ashmore Rd.
Champeau, Harold Charles	49	Quincy	14 Oberlin
*Chandler, Arnold Edward	48		248 Mower
Chandler, Kenneth Ashton	48	Sterling Jct.	
Chang, Ching Chieh	G g	Kia-Hsien, Honan, China	Estabrook Hall
Chao, Sung-Chiao	G F	Hangchow, China	46 Tirrell
Charamella, John Laurence	51		227 Plantation
Chase, Arnold David	50		15 Somerset
Chesson, Harold Ray, Jr.	50	West Brookfield	
Choiniere, Jacqueline Marie	50	Webster	
Christie, Janette	49		3 Perrot
Chupis, Ruth Ann	48	Shrewsbury	
Ciani, Libro	50		31 Granby Rd.
Ciborowski, Henry Joseph	51		95 Millbury
*Clair, Carl Richard	51		509 Grafton
Clapkin, Marvin Babbit	48		1 Circuit Ave.
Clark, Genevieve	G S	Buffalo, N. Y.	24 Gates
Clark, Howard Leslie	50	Calgary, Alberta, Can.	Estabrook Hall
*Clark, John Philip	50	Oxford	
†Clark, Marion	En s		9 West
Clement, Stanley Francis, Jr.	50	West Roxbury	921 Main
Cocchiola, Jerry Joseph	50	Clinton	
Cogan, Robert John	50	Ayer	
Cohen, Lois Ruth	51		39 Woodford
Collier, Christopher	51	Webster	
*Collins, John Frederick	50		50 William
Comalli, Peter E., Jr.	50	Lee	53 Maywood

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Connolly, Paul Joseph	Ed g		67 Eastern Ave.
Conover, Walter Calvin	48	Red Bank, N. J.	6 Downing
Conway, Edward Hartnett	51	Bronxville, N. Y.	Estabrook Hall
Cook, Ellsworth Barrett	Ps g	Gales Ferry, Conn.	
Cook, Mary Elaine	50	Uxbridge	32 W. Main, Millbury
Cook, Ralph Elliott	48	Keene, N. H.	40 Richards
Cooper, Ralph Christian	51	Bethel, Conn.	264 Upton St., Grafton
Costello, Eleanor Anne	49	Lawrence	Blakeslee Hall
Coupe, George Alfred	51		7 Freeland Ter.
Cournoyer, Paul Romeo	49	Spencer	
Courtney, Marie Frances	50		42 North Parkway
Coyle, Jack Burton	49	Jersey City, N. J.	35 Maywood
Coyle, Thomas Harrison	50	Jersey City, N. J.	35 Maywood
Crain, Loren Orville	Ps g	Oakdale	
*Cramer, Herbert William	48	Brooklyn, N. Y.	35 May
†Crane, Vera R.	48	Athol	
Crickard, George Edgar, Jr.	50	Shrewsbury	
Crockett, Harold Ernest	49		14 Dale
Croman, Earl Leonard	49	Clinton	36 Richards
*Cron, Carl David	51		64 Clover
Cronin, James Francis, Jr.	49		3 Greenleaf Ter.
Cross, Olive Louise	49	Holden	
Crotty, Jean Ethel	Ed g		59 Hamilton
Crowley, John Joseph	51		59 Downing
†Crowley, Mary Valentine	FA s		9 Belvedere Ave.
Cuccaro, Ernest Oriente	50		4 Alvarado Ave.
Curran, Robert Joseph	Ps g	Fort Devens	
Dagirmanjian, Arthur	48	Whitinsville	
Daly, Charles Francis	Ed g		486 Park Ave.
Dand, Virginia Wyman	48		21 Bellevue
Daniels, Richard Charles	50	Cherry Valley	
Danklefsen, Mildred Marie	G F	Bellevue, Ohio	455 Park Ave.
Danstedt, Robert Spencer	BE		161 Highland
Daviau, Donald George	51	Oxford	
Davidian, David B.	49		72 Hamilton
*Davidson, Arthur Benjamin	50		2 Wellwood Rd.
Davidson, Chester Joseph	51		44 Tainter
Davidson, Louie	51	Dorchester	Estabrook Hall
Davis, Allan Satterthwaite	51	Merion Sta., Pa.	Estabrook Hall
†Davis, Carl James, Jr.	50	Watertown	99 Salisbury
Davis, George Herbert, Jr.	50	Auburndale	921 Main
Davis, James Kotsilibas	51		87 Commodore Rd.
Day, Jeanne Phyllis	50		Fanning Hall
Day, Richard Lorey	48	Kittery Point, Me.	18 Shepard
Dean, John H.	G g	Oswego, N. Y.	974 Main
Dean, Robert James	50	Binghamton, N. Y.	130 Maywood
Deane, Mary Louise	50	Whitinsville	Blakeslee Hall
Dear, Walter Ching	50		209 Lincoln
Degermajian, George	51		1 Patch
Delehanty, Edward John	51	Wallingford, Conn.	Estabrook Hall
De Lollis, Georgianna Assunta	48		14 Liscomb
Del Rosso, Stephen	Ed g	Dorchester	
Denardo, John Edward	48	Waterbury, Conn.	35 Maywood
*Derosier, Albert Paul	49	Los Angeles, Cal.	9 St. Nicholas Ave.
Derosier, Robert Frederick	48	Leominster	
Desroches, Edward Joseph	49	Southbridge	
De Vries, Faith Marie	51	West Upton	56 Brownell
Dickinson, Howard Irving	48	Auburn	
Dik, Robert Edward	50	Townsend	
*Dimitroff, Olive Ide	50	Paul Smith's, N. Y.	Woodland Hall
†Dinerstein, Jenny	B s	Colchester, Conn.	10 Chatham
Dingman, Paul R.	Ps g		39 Morgan
Dion, Henry William	Ch F		160 Canterbury
Di Rienzo, John Carl	50	Framingham	
Divoll, Lincoln Allen	48		33 Navasota Ave.
Divoll, Robert Crane	50		33 Navasota Ave.
Dobie, Roberta Barratt	49	Millbury	Fanning Hall
Dobis, Marcia Rae	51	Wellesley Hills	Blakeslee Hall
Dolan, Carolyn Anne	49		25 Oberlin
Donahue, Michael Aloysius	H g		161 Institute Rd.
Donoghue, Sheila Veronica	49		23 Jones
Donohue, Harry Joseph	48		7 Cedar

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Doolittle, Carolyn Merriam	48		9 Rexhame Rd.
Dornes, Kenneth Charles	49		10 Chippewa Rd.
Dow, Edwin Peter	50	Rutland	
Dowd, Earl Edmund	48		3 Clive
Drury, Lawrence Calvin	50	Holden	
Dryer, Arthur Oscar	49		162 Highland
Duncan, Thomas	51	New Haven, Conn.	Estabrook Hall
Dunn, John Joseph	50	Shrewsbury	
Dworkin, Daniel Martin	48		93 Grand View Ave.
Dworkin, Dorothea Barbara	50		93 Grand View Ave.
Dwyer, John Joseph	Ed g		123 Woodland
Dwyer, Richard Edward	51	Dalton	Estabrook Hall
Dzikiewicz, Eugene Henry	51		55 Olga Ave.
Earls, Kevin Martin	Ed g		35 Beaver
Eaton, Donald Robertson	Ps g	Natick	
Ecker, Nathalie	51		34 Amherst
*Eckman, Harold	48		32 Barclay
Edinberg, Norman Joseph	49		69 Providence
Egan, Jean Helen	51	Sterling	
†Einhorn, Moses	H g	Putnam, Conn.	
Eklund, William Henry	51		183 Vernon
Ela, Charles Waldo	49		31 Lancaster
Elby, Albert Robert	49	New York, N. Y.	40 Richards
Eliopulos, George Nicholas	50		46 June
Eliopulos, James Nicholas	48		46 June
Eliopulos, Wonna George	48		86a Elm
Ellis, Ralph Warner, Jr.	50		22 Howland Ter.
*Ellis, Richard Baker	G g	Oxford	
Elsasser, Edward O.	H g	Washington, D. C.	41 King
Eng, Shewlem	51	Yonkers, N. Y.	Estabrook Hall
Epstein, Rosaline	51	Gloucester	Fanning Hall
Erickson, George Carl, Jr.	51	Gardner	
Ericson, Marion Frances	48	Auburn	
Ericson, Robert Henry	51	Auburn	
Erlich, Alfred Simon	48	Webster	
Errede, Michael Anthony	48, H s		256 Shrewsbury
Ewing, Eleanor Marian	51		6 Northridge
Falk, Willy	50	Brookline	766 Main
Falko, John Michael	51		45 Endicott
Farmer, Evelyn	48	Boylston	
Farnum, Forest Thomas	48	Gardner	35 Maywood
Farrand, Brent Triest	50	Liberty, N. Y.	16 Marble
Faucher, Vincent Roger	Ed g		97 Paine
Feingold, Sonja Gerda	Ps g	New York, N. Y.	24 Gates
Femina, Anthony Joseph	50	Milford	17 Hammond
†Finkelstein, Ernest Haskel	51	Framingham	
Finks, Martin Benjamin	48	Dorchester	36 Richards
Finneran, Rita Elizabeth	Ed g		202 Stafford
Fipphen, John Stanley	49	Shrewsbury	
Fischer, Genevieve Agnes	51		108 Barnard Rd.
Fisher, Philip Brierly	49		3 Ferdinand
Fishkin, Jean Thelma	H S	Long Island City, N. Y.	17 Oberlin
†FitzGerald, Paul Robert	50	Spencer	
Fitzmaurice, Henry F.	H g	Auburn	
Flagg, Earle Vincent	51		115 Brooks
Flaherty, Joan Marie	49		17 Hitchock Rd.
Fleming, Marie Frances	50		461 Chandler
Flint, Charles Edward	51	Leicester	
Flynn, Christine Earls	Ed g		10 Grand
Foley, John Francis	G g		21 Larch
Foley, Vincent Donnell	51		17 Circuit Ave.
Fontaine, Mary Kathleen	50	East Douglas	
Foote, Francis Wilbur Munson	51	Ctr. Rutland, Vt.	Estabrook Hall
Forand, Paul Robert	51		62 Lakewood
Forzley, Leo B.	51		88 Locust Ave.
Fouracre, Arlene Jane	51	Northboro	
Fox, Beverly Jean	51	Sturbridge	Woodland Hall
Fox, Robert W.	51	Staffordville, Conn.	Green's Trailer Park
Frank, Marvin Irving	49	Bridgeport, Conn.	6 Agawam
Frazier, Philip North	50	Galveston, Texas	1 Circuit Ave.
Freed, Aubyn	50		28 South Flagg

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Freelander, Samuel Julius	50		19 Waverly
Freer, George Hoyt, Jr.	50	Liberty, N. Y.	23 Richards
French, James Charles, Jr.	49		5 Montague
Friedman, Howard	Ps g	Newton Centre	197 South Flagg
Frissora, Anna Loraine	49		128 Norfolk
Frost, Albert Edward	Ch g	East Douglas	
Galanto, Fred John	49		17 Rena
Gale, Richard David	48	Pawtucket, R. I.	25 Queen
Gallagher, Mary June	50		17 Wachusett
Gallin, Grace Ann	50	Brooklyn, N. Y.	Woodland Hall
Gallo, Louis Charles	50		115 E. Central
Garbose, Samuel Bernard	51	Gardner	Estabrook Hall
Gardner, Richard Edward	49	East Pepperell	40 Richards
†Gartlan, Jean Florence	FA s		13 Hammond
Gates, Ralph Lawrence	50		58 West
Gauthier, Kenneth Paul	51		17 Coburn Ave.
Gay, Frederick John, Jr.	51		66 Dorchester
Gearin, Barbara Mary	49		16 Alsada Dr.
Gendron, Lillian Louise	50	Southbridge	Blakeslee Hall
Gibbs, Richard Warren	51		3 Stoneland Rd.
Gibson, Stuart Calvert	49	Grafton	
*Giles, Robert Samuel	51	Auburn	
Giles, Wesley Reginald	51		22 Dix
Gillespie, Arthur Merton	Ed g	Northbridge	
Gillson, George Edward	50		51 Richmond Ave.
Ginett, Lyndon E.	50	St. Albans, Vt.	17 Isabella
Giobellina, Mary Angela	50	West Boylston	
Globus, Sylvia Miriam	48	Attleboro	Woodland Hall
Goldberg, David Harold	50	Colchester, Conn.	21 Grand
Goldfaden, Allen Robert	50	Norwich, Conn.	Estabrook Hall
Goldman, Martin	51	Dorchester	Estabrook Hall
Goldstein, Arthur	51		5 Van
Goldstein, Diane Rhoda	51	Brookline	Woodland Hall
Goldstein, Edward Martin	50	Brookline	995 Main
Golner, John Russell	49	Allston	579 Main
Golumbuk, Leon	51		53 Midland
Gonzalez, Alfonso	50	New York, N. Y.	Estabrook Hall
Goodell, Robert P., Jr.	50	Shrewsbury	
Goodlight, Edward Thomas, Jr.	51		187 Delmont Ave.
*Goodlight, Gertrude L.	Ed s		87 Houghton
Goodman, Charles David	49	Brooklyn, N. Y.	18 Claremont
Goodwin, Albert Fillis	51	Gloversville, N. Y.	Estabrook Hall
Gordon, Walter Kelly	51	Brooklyn, N. Y.	98 Beaverbrook Pkwy.
Graden, Harold Ragnar	50		16 Paul
Graden, Thurston Harold	48		16 Paul
Grader, George Wilson, Jr.	50	Marblehead	Estabrook Hall
Graham, Richard Henry	49		33 Wildwood Ave.
Graham, Russell Arthur	50		46 Oread
Graves, Harold Oliver	49	West Boylston	
Graves, Pauline Elizabeth	51	Woronoco	30 Beeching
Gray, Grant Harry	49	Providence, R. I.	100 Woodland
Green, Howard Leon	G g	Millburn, N. J.	162 Highland
Green, Robert Fried	49		3 Hanna Rd.
Green, Ruth Elizabeth	49		1 Kenilworth Rd.
Greenberg, Roy Kasen	51	Brooklyn, N. Y.	Estabrook Hall
Greenstein, Julius Sydney	48	Mattapan	
Greenwald, Aubrey	51		18 Healy Rd.
Griffin, Margaret Monica	48		27 Freeland
*Griffin, Richard John	51	Hopedale	
†Grove, Richard Irving	50		22 Berkmans
Guba, Anne Lackens	50	Waltham	Fanning Hall
*Guerin, Henry Joseph	49	Quinebaug, Conn.	
Guest, Ann Talbot	49	Princeton	Woodland Hall
Gullbrand, Howard Axel	48		148 Eastern Ave.
Gurewich, Victor	51	New York, N. Y.	Estabrook Hall
Gurfinkel, Abraham Leon	48		26 Carlisle
Gurney, Fred Victor, Jr.	50	Amesbury	17 Isabella
Gustafson, Russell John	49		32 Kosta
Guy, Robert Woods	51		527 Salisbury
Gwynne, Nettie Thayer	49		12 Ivanhoe Rd.

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Haberman, Gilbert Arlen	50	Longmeadow	36 Richards
Haddad, Richard J.	49		8 Linwood
Hague, Gladys Elizabeth	48		31 Fifth Ave.
Haith, William Lawrence	49	Southbridge	
Halko, Henry James	48	Webster	
Hallahan, John Joseph	49		16 Douglas
Hallock, Gilbert Vinton	49		15 Lee
Hampton, Faith Althea	51		15 Reservoir
Hanley, Edward Anderson	51	Manson	Estabrook Hall
*Hansen, Arthur Richard	48		14 Flagg
Hanson, Martha Eleanor	49		43 Lancaster
Haroian, Mary	48		43 Laurel
Haroian, Pearl	50	Clinton	
Harris, Jean Barrows	49	Fitchburg	Woodland Hall
Harris, Joseph Edmond	48	North Brookfield	
Harris, William Eldon	49		28 Clifton
Harrison, Nathan Benjamin	48		125 June
Hartocallis, Peter Thomas	49		126 Coolidge Rd.
Haskins, Nancy Chandler	50	Norwell	Blakeslee Hall
Hassan, Mohamed Ibrahim	G g	Cairo, Egypt	893 Main
*Hawie, Louise Virginia	50	Bridgeport, Conn.	Blakeslee Hall
Haworth, Herbert Arthur	50	Dalton	Estabrook Hall
Hayeck, Albert Spero	50		20 Ridge
*Hayeck, George Najeb	51		20 Ridge
Healey, Frank Henry, Jr.	Ch g	Fitchburg	42 Tirrell
Hearn, Lea Theresa	G S	Attleboro	46 Tirrell
*Hebert, Elaine Olive	50	Joliet, Ill.	Fanning Hall
Hebrawi, Mohammed Akiel	G g	Alexandria, Egypt	81 Florence
Heckman, Warren Keith	50		10 Pratt
Hedberg, Harold Walter	49		1 Patch
Hedenburg, Kenneth Bruce	50		236 Beverly Rd.
Hefner, Ruth Marie	51	Southbridge	
Hefny, Mohamed Bahy El-Din	G g	Guiza, Egypt	4 Kilby
Held, Colbert Colgate	G g	Clinton, Miss.	38 Benefit
Heller, Martin	50	Brooklyn, N. Y.	81 Florence
Helm, David Arthur	50		6 Cutting Ave.
Hemmendinger, Larry	Ps g	Hillside, N. J.	17 Isabella
Heroian, Sharkey	50		165 Dewey
Hertzmark, Rhoda Gay	51	Waterbury, Conn.	Fanning Hall
*Hiatt, Jacob	H g		35 Terrace Dr.
Hicks, Walter Braxton	50		114 June
Higginbotham, Forrest Ivan	50		4 Pelham
*Higgins, Marianne Cathleen	49	Shrewsbury	
Higgins, Nancy Marie	50		151 Morningside Rd.
Higgins, William Thomas	50	Hingham	845 Main
Hilborn, Elizabeth Ann	50	New York, N. Y.	Woodland Hall
Hill, Joseph Allen	51	Albany, N. Y.	Estabrook Hall
Hill, Nelson Richards	49	E. Greenbush, N. Y.	16 Marble
Hill, Raymond Bertil	Ed g		60 Housatonic
Hobin, John Francis	Ed g		22 Fairhaven Rd.
Hofschire, Irja Rachel	49		32 Forbes
Hohne, Russell Werner	51		28 Marconi Rd.
Hokans, David Hamlin	51		1465 Grafton
Hokanson, Leonard Ray	51		31 John
Holdroyd, Harriet Lucia	50	Spencer	
Holland, Howard Owen	48		27 Hemans
Holm, David Roland	51		69 Eagle Rd.
Holmes, George Everett	49		27 Holden
Hoogasian, Harry	48		66 Russell
*Horovitz, Barbara Ruth	49	Newton	Woodland Hall
†Horowitz, Samuel	50	Mattapan	Estabrook Hall
Hortman, Helen E.	49		43 Lancaster
Hortman, Jacob Cyrus, Jr.	49	Minden, La.	43 Lancaster
Houle, Paul Wendell	51	Gardner	Estabrook Hall
Howard, Shirley Barbara	48		10 Sturgis
Hoyt, Joseph Bixby	G g	Fiskdale	
Hull, Stanley Parker	Ec g	Shrewsbury	
Hunsberger, Mary Jane	51	Middletown, Conn.	Woodland Hall
Hunt, Grace-Louise	50	Northboro	Blakeslee Hall
Hurvitz, Cecile Gloria	51		24 Colonial Rd.
Hurwitz, Irving	49		48 Barclay
Hurwitz, Theodore Herbert	51		4 No Woodford
Hyszczak, Peter Paul	51	Jersey City, N. J.	Estabrook Hall

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
*Illingworth, Robert Konold	49		209 Lovell
Ireland, Richard Maxwell	Ec g		25 Catherine
Irizarry, Julio	48	Sabana Grande, P. R.	24 Beaver
Irwin, Winnifred Morton	H F	Vancouver, B. C., Can.	7 Laconia Rd.
Isenberg, Slater Kunitz	H g		21 Chamberlain Pkwy.
Italiano, Armando Robert	51		38 Shamrock
Jack, John Archibald	50	Bridgetown, Barbados, B.W.I.	13 Gates
Jackman, Albert Havens	G g		18 Kenilworth Rd.
Jackson, Priscilla Rosalie	51		89 Eunice Ave.
Jacobson, Daniel	G g	Newark, N. J.	511 Park Ave.
Jaffe, Mitchell	49		40 Mendon
Jameson, Harold, Jr.	49		84 Copperfield Rd.
Jamgochian, Hagop H.	49	Shrewsbury	
Jardarian, Zaven	48		32 Blossom
*Jarvis, David Sumner	48		469 Grove
Jasen, Myrna Belle	50	New York, N. Y.	Blakeslee Hall
Javery, Milton Henry	50		72 Salem
Jewell, Allan Wilbur	50	Webster	
*Johanson, Doris Elisabeth	48		261 Brattle
Johnson, Alan	49	Lynn	43 Oberlin
Johnson, Arthur Russell	48		53 Raymond
Johnson, Betty Ellen	51	North Grafton	
Johnson, Dorothy Anne	49	Holden	Fanning Hall
Johnson, Phyllis Constance	51		2 Esther
Johnson, Sonya Alice	48		67 Catherine
Johnston, John MacKenzie, Jr.	50	Leicester	
Johnston, Sally Davies	51	West Boylston	Woodland Hall
Johnstone, John Oliver	51	Holden	
Jones, Dudley Palmer	50		126 Clark
Jones, Louis Allman	50	Ashburnham	35 Maywood
Jones, Margaret Elizabeth	50	Southbridge	Fanning Hall
Jones, Mary Kathryn	51	Southbridge	
Joress, Sumner Mark	48, B s	Roxbury	36 Richards
Joyce, June Pearl	48	East Brookfield	
Justice, George Warren, Jr.	50	Woburn	
Kachadorian, Harry	50		41 Jaques Ave.
Kalil, Eli	50		269 Fairmont Ave.
Kalil, Raymond	50		119 Hamilton
Kalin, Robert	51	W. Hartford, Conn.	Estabrook Hall
Kamandulis, Donald Algerd	51		10 Strathmore Rd.
Kane, Phyllis Elaine	49		63 Brownell
Kane, William Francis, Jr.	51	Marlboro	
Kant, Rena Susan	51	Shrewsbury	
†Kaplan, George Robert	H g	Brighton	905 Main
Karazia, Ernestine Vanda	49		82 Harlem
Karvonen, John W.	51	Shirley	Estabrook Hall
Katte, Martin, Jr.	48	Arlington, Va.	16 Marble
Katz, Alice Freda	50	New York, N. Y.	Blakeslee Hall
Kaufman, Stephen Lloyd	51	New York, N. Y.	Estabrook Hall
Keegan, Martin Leo, Jr.	49	Dalton	2 Kilby
Keinard, Alvin S.	G F	Palmyra, Pa.	41 King
Kelleher, Noeline Ann	51	Boylston	
Kelleher, Robert Leo	49		6 Algonquin Rd.
Kellogg, David Hodgkins	49	Springfield	32 Gates
Kemp, Betty Mary	50		552 Chandler
Kemp, James Malcolm	48		552 Chandler
Kennedy, Edward Aloysius, Jr.	Ed g		21 Clearview Ave.
Kennedy, Louise Marie	50	Auburn	
Kerkorian, George Jasper	50		204 Chandler
Kern, Joseph Walter	48	New Britain, Conn.	18 Shepard
Keyes, Robert James	51		52 Gardner
Kiewiet de Jonge, Engbert J. C.	G g		6 Downing
Kiewra, Stanley Francis	51		8 Hillside
Kinney, Gwendolyn Jane	50		38 Hillcrest Ave.
Klamkin, Charles	48	Waterbury	54 Florence
Kleine, Herman	Ec g	Hemsptead, N. Y.	Worc. Polytechnic Institute
Kneeland, David John	49		5 Shepard
Kneller, Leighton Alvin	48		10 Hitchcock Rd.
Knight, Carolyn	49		47 Brownell

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Knowles, Robert Minot	B s		6 Marston Way
Knox, Roy Irving	48	Leicester	
Kokocinski, Emily Elisabeth	48	Webster	
Korzun, Sophiamarie Roberta	49		83 Penn Ave.
Kosciusko, Theresa Christine	51		368 Greenwood
Koskinas, Liberty Catherine	51		61 Providence
Koutsoubas, Evelyn Helen	51		10 Newton Ave.
Kowal, Edna Elizabeth	50		6 Lisbon
Krajewski, Irene Rose	49		5 Norwood
*Krochalis, Anthony Vitie	51		10 Sterling
Kubiak, Barbara Ruth	51		112 Dana Ave.
Kunzelman, Lois Walbridge	48		6 Ararat
Kyi, Ma Thin	G g	Thaton, Burma	46 Tirrell
Labenski, Therese Mary	49		69 Harlem
Laffey, John Edward	Ec g		49 Freeland
Laggis, Mary Chriakula	48	Ayer	Woodland
Laipson, Samuel Mayer	51		5 Farnum Ter.
Lambros, Nicholas	51	Clinton	
†Lamport, Marjorie Roth	49	New York, N. Y.	46 Winter St., Southbridge
Lancey, Robert Alan	51	West Townsend	Estabrook Hall
Lane, Arthur Dennis, Jr.	H g	Leominster	
Lapham, Marjorie	50		939 Main
La Pierre, Raymond Lloyd	49	Leominster	20 Gates
Lapinskas, Aldonna	G g		83 Penn Ave.
La Plante, Bernard James	Ec g		71 Gates
Laska, George	51		13 Converse
Latendress, Hazel Marion	G S	Mohegan, R. I.	3 Shirley
Latham, George Robert	48		52 William
Lavine, Richard Bennett	48	Webster	
Leavitt, Milton	50		27 Derby
Le Blanc, Beatrice Yolande	50	Gardner	Woodland Hall
*Le Blanc, Roger Louis	51	Gardner	
Le Claire, Edward Emile, Jr.	48	Southbridge	
Le Claire, Robert Lawrence	51	Millbury	
Lee, Harold James	51	New York, N. Y.	Estabrook Hall
Lekas, Mary Despina	49		323 Pleasant
Lemire, Marie Ernestine	49		20 Gates
Lennan, David Richards	Ec g		65 Brantwood Rd.
Lennan, Geoffrey Wendell	50		65 Brantwood Rd.
Lenti, Frank M.	G s		525 Grafton
*Leonard, Robert Martin	50	Shrewsbury	
Leone, Anthony Daniel	49		112 Clayton
Lepore, Francis Edward	50	Clinton	
Leroux, Lorraine Theresa	49	Leicester	
Le Shan, Lawrence Lee	Ps g	New York, N. Y.	919 Main
Leslie, John Charles	50		93 May
Levy, Alfred Jacob	50	Dorchester	36 Richards
Liberty, Kenneth Earl	50	North Uxbridge	
Liberty, Richard Robert	50		682 Main
Lilley, John Robert, II	50		127 South Ludlow
Listewnik, Henry Vincent	51		407 June
†Little, Barbara Louise	FA s		13 Hammond
Ljungberg, Betty Pauline	50		46 Eunice Ave.
Loomer, Sumner Wellington	51	Shrewsbury	
Lord, Edgar Dana	Ed g	Holden	
Lord, Elizabeth Barley	51	Auburn	
Lorens, Leonard Carl	Ec g		2 Pleasant Place
Loweth, Gerald Philip	50	Norwich, Conn.	Estabrook Hall
Lucas, Frances Stanhope	48		54 Morningside Rd.
Lumb, Ralph Francis	Ch g	Shrewsbury	
*Lundin, Gwen Helen	51	Holden	
Lurier, Harold Edmond	48		231 Park Ave.
Lurier, Janice Evelyn	50		231 Park Ave.
Lurier, Norman Merrill	51		231 Park Ave.
Lussier, Jeanne Margaret	51		49 Kingsbury
Lynch, Jean Mary	51		95 Fairfield
*Lynch, Robert Russell	49	Leominster	
Lynch, Thomas Joseph	48		78 Commodore Rd.
MacArthur, Kenneth Cauldwell	H g	Sterling	
MacDonald, Robert William	48	Schenectady, N. Y.	17 Isabella

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
MacFarland, Jameson David	51		182 Millbrook
Macintyre, Jean Warren	51		4 Davidson Rd.
MacKay, Norman Dale	49		1 Wakefield
Macomber, William Bernard	Ps g	Framingham Center	
*Magnusson, Roger Philip	48		6 Minthorne
†Majeed, Abdul Amir	G g	Baghdad, Iraq	2 Kilby
Malick, Donald	48	New Bedford	47 Florence
Mancevice, Ruth Beatrice	49		29 Cutler
Mancini, Mario	51		195 Lincoln
*Manion, Rita	Ec s	Shrewsbury	
Manning, Arleen Marie	48		1 Rosemont Rd.
Manzi, Dolores Maria	50	Webster	
Manzi, Lucian Arthur	51	Shrewsbury	
Marshall, Jean Marion	51	Framingham	Woodland Hall
Marshall, John Francis	51	Brooklyn, N. Y.	Estabrook Hall
Marsoopian, Anita	50	Whitinsville	
Martel, Raymond Joseph	50		10 Dallas
Martel, Robert W.	50	Webster	
Martin, Loraine Zulike	49	Holden	
Martin, William Butler, Jr.	48	Ashburnham	16 Marble
Martineau, Donald Paul	48	Auburn	
†Martus, Joseph Armand	Ch g		College of the Holy Cross
Mason, Edward	48		71 Russell
Mason, Ina Cohen	48		71 Russell
Mason, James	50	Brooklyn, N. Y.	16 Marble
Mastroberti, Rocci Stephen	50		38 Superior Rd.
Matson, Shirley Marie	En s		60 Rowena
Mauke, Otto Russell	H g	Webster	
Maynard, Wentworth Charter, Jr.	48		115 Monadnock Rd.
Mazur, Anne Regine	50		42 Perry Ave.
Mazur, Bernard	48		153 Chandler
McCabe, Kathryn Lovejoy	49		77-3 Park Ave.
*McCarthy, Bernard William	Ed s		82 Green Hill Pkwy.
McCarty, Margaret Ann	48	Clinton	
McCauley, Donald Frederick	51		509 Burncoat
McCulloch, Mary Leone	H g	Westfield	25 Woodman Rd.
McDonald, John Joseph	50	Hackensack, N. J.	1 Circuit Ave.
McDonough, Thomas Joseph	50		15 Paine
McGrath, Marshall Conrad	51	Rochester, N. H.	Estabrook Hall
McGrath, Mary Agnes	H s		66 Providence
McGrath, Mary Elizabeth	49		583 Cambridge
McIntosh, Alan Campbell	50	Needham	10 Charlotte
McKeeman, Gordon Butler	Ps g		43 Oberlin
McLean, William Andrew	51		29 Westfield
McMurtrie, John William	50	New York, N. Y.	511 Park Ave.
*Mee, John Courtney	51	Marlboro	Estabrook Hall
Meissner, Philip George	51	Little Neck, N. Y.	Estabrook Hall
*Melia, John James	48		77 Sterling
Mellin, Alan Gilman	51	Melrose	Estabrook Hall
Menard, Robert Wells	49	Shrewsbury	
Mensoian, Michael George, Jr.	50		23 Henchman
Mero, Esther Barbara	50		363 Cambridge
Meyer, Ruth Phyllis	Ed g		26 Howland Ter.
Michelson, Stanley Lucius	50		28 Einhorn Rd.
Mikoloski, Vincent Stanley, Jr.	50		25 Rob Roy Rd.
Miller, Rex Clinton	G g	Goehner, Neb.	60 Beaver
Mindick, Arnold David	51		67 Richmond Ave.
*Mita, Walter Vincent	51		130 Heywood
Mitchell, Richard Paul	50		74 Plantation
Modlinger, Ralph Elmer	48	North Adams	8 Linwood
Moffatt, Richard Andrew	49	Lowell	12 Loxwood
Mohr, Tom L.	51	New York, N. Y.	Estabrook Hall
Mongeon, Norma Joyce	51	Millbury	
Monks, Lois Elaine	51		14 Hitchcock Rd.
Mooradkanian, Edward H.	51	North Andover	Estabrook Hall
*Morgan, Wesley K.	Ger s		5 Lull
Moriarty, Marion Louise	50		34 Florence
Moriarty, Richard Woodbridge	48	Petersham	
Morin, Gerald Joseph	49	Fisherville	
Morse, Lois Sandra	49	Allerton	Woodland Hall
Morse, Nancy	48		49 Rowena
Morton, Beverly	48		955 Pleasant

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Moseley, William Richard	49		547 Park Ave.
Muir, Jeanne Viola	50		301 Burncoat
Murawski, Benjamin J.	49	Pittsfield	11 Charlotte
Murphy, Ann Marie	51		220 Lovell
*Murphy, Eleanor Jean	48		291 Beverly Rd.
†Murphy, Paul Florence	49		56 Orange
Murray, Pauline Anne	49		65 Kenwood Ave.
Myers, Wallace Haslett	51		3 Old English Rd.
Naas, Charles Willis	49		92 Lovell
Nanigian, Jacob	48	Paxton	
Nason, Natalie Eva	G g	Orono, Me.	2 Downing
Neary, Beatrice L.	50		193 Park Ave.
Nelson, Betty Louise	51		33 Goshald
Nelson, Hersey Bradford	48		248 Burncoat
Nelson, Polly Katherine	51	Adams Basin, N. Y.	Blakeslee Hall
Nelson, Roy Stanley	50		148 Brattle
Nelson, Thomas Leverett, Jr.	51	Northboro	Estabrook Hall
Neyenhouse, John Alfred, Jr.	51	Brooklyn, N. Y.	Estabrook Hall
Nicholas, Virginia	51		17 Goulding
Nichols, Arthur Wilder, Jr.	51		178 Lincoln
Nikerson, Shirley Louise	48		23 Wellington
Nicola, James	51	Bridgeport, Conn.	Estabrook Hall
Nilson, Niles Albert	G g	East Orange, N. J.	35 May
Nims, Robert Ferdinand	50	Auburn	
Noe, Margaret Mary	48	North Grafton	
Nolan, Anne Elizabeth	48	Auburndale	Blakeslee Hall
Nolin, Emile Francis	50	North Agawam	35 Maywood
†Noone, James Joseph	Ed g		330 Hamilton
Norton, John Ernest	50		11 Duxbury
Obremski, Edward	51		11 Dorchester
O'Connell, James Francis	51	Branford, Conn.	Estabrook Hall
O'Connor, Agnes Mary	50		3 Ashton
O'Connor, Lawrence Stephen	50		2 Agawam
O'Donnell, Paul Daniel	Ec g		152 Russell
O'Grady, Margaret Rita	51		2 Pelham
Ohman, Howard Leonard	G g		23 Sunrise Ave.
O'Leary, Daniel Rockwood	50		5 Eastern Ave.
Olson, Benedict Oliver	50		3 Ridgewood Rd.
Olson, Marjorie Louise	51		85 Downing
Olund, Paul H.	48		8 Cutting Ave.
O'Neill, Alan Edward	51	Farnumsville	57 Depot St., Grafton
Orman, Sidney Bernard	51	Shrewsbury	40 Wellington
*Orr, Helen Ager	Ed s		11 Hawthorne
Osborne, Kenneth Marceline	48	Amsterdam, N. Y.	11 Circuit Ave.
Osten, Donald Walter	H g	Jamaica, N. Y.	27a Elm
Ostroff, Barbara June	49	Gardner	Woodland Hall
O'Toole, Alice Maureen	51	Clinton	
O'Toole, Charles Stuart	51	Leominster	
†Oudheusden, Frank Peter	50	Rye, N. Y.	Estabrook Hall
Owens, John James	50	New Bedford	52 Woodland
Pacek, Walter John	51		1 Pitt
Pachanian, Sempad Arthur	48		150 Elm
Pagnotto, Leonard Domenic	49	Fitchburg	
Palley, Melvin Mayer	50		12 Arthur
Palmer, Isley Isabelle	50	Southbridge	Woodland Hall
Paly, Sidney Nathan	48	Brooklyn, N. Y.	33 May
Panaccione, Joseph John	50	Barre	16 Marble
Pannkuk, Berend David	49	Topeka, Kan.	23 Richards
Pappas, Charles	51	Webster	
Pappas, Daniel James	49	Webster	35 Maywood
Pappas, Ernest James	51	Webster	Estabrook Hall
Parker, Edward Thomas	50	Whitinsville	
Parker, Fred Walter	50		7 Irene
Parker, George Knight	51		14 Market
Peck, George Peabody	CL s	Boston	
Pemstein, Bernard Livingston	50		1 Cedar
Pentland, Robert Howard	51		178 June
*Perkins, Benjamin Chute, Jr.	51	Beverly	Estabrook Hall
Peterson, David Anshelm	48		167 Eastern Ave.
Peterson, Paul Norman	51		15 Lorenz

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Petka, Stanley Michael	49	Wilkinsonville	
Phelps, Ernest D.	Ec g	Auburn	Worc. Polytechnic Institute
Phillips, Albert George	51	Audubon, N. J.	P.O. Box 153, Leicester
†Phipps, Clarence Ray	50	Mendon	
*Pierce, Francis J.	49		73 Longfellow Rd.
Pike, Sidney	51	Mattapan	Estabrook Hall
Pincus, Jack Carl	50	Brooklyn, N. Y.	36 Richards
Piper, Barbara Ruth	50	Leominster	21 Bowdoin
Pizzutto, Carmen S.	48	Pittsfield	11 Charlotte
Plakstis, Peter, Jr.	48		3 Perry Ave.
Plante, Marguerite Pauline	G S	Boston	49 Florence
Plucinski, Robert Paul	51		7 Firglade Rd.
Plue, Bradford Barrett	49		1020 Main
Plumb, Robert Charles	49	Springfield	168 Mayfield
Plummer, Franklin Pierce, III	51	Swarthmore, Pa.	Estabrook Hall
Pongowski, Florence Josefa	51		83 Ward
Pontbriand, Clifford Hector	48	Charlton Depot	277 South St., Southbridge
Pope, Henry William, Jr.	49	Naugatuck, Conn.	921 Main
Porton, Marjorie June	50		92 Elm
Praglin, Julius	48	Boston	36 Richards
†Prange, James William	G s	Hardin, Ill.	Estabrook Hall
Pratt, Kenneth William	49	Leicester	
Price, Raymond A.	51	Lunenburg	
*Proctor, Patricia Woodbury	G s	Northboro	
Proctor, Robert Merton	50		1342 Pleasant
Proodian, Valerie Mary	51		25 King
Prouty, Gordon Keith	H g	Leicester	
Pryor, Robert E.	51	South Berlin	Estabrook Hall
Puniskis, George John	49		170½ Washington
Putnam, Emmons Waldo, Jr.	48		39 Coventry Rd.
Putnam, William Bennett	51	Shrewsbury	
Quackenbush, Stanley George	48		148 Russell
Quaiel, Philip Joseph	48		20 Circuit Ave.
Quinn, Edward William	50		37 Stoneland Rd.
Raboin, J. Alfred	48	Fitchburg	
Rackliff, Virginia Christina	48	Easton, Me.	Fanning Hall
†Raffa, Romolo Louis	50		54 Alvarado Ave.
Raleigh, John Preston	51		42 Birch
Rassias, Charles N.	51		20 Hackfeld Rd.
Reddy, Martin Matthew	50	New York, N. Y.	16 Marble
Reed, Benjamin	49		50 Providence
†Reed, Katherine Aileen	Ed g	Syracuse, N. Y.	Woodland Hall
Rees, David John	50	Albany, N. Y.	Estabrook Hall
*Reidy, Helen Virginia	Ec s		180 Mayfield
Reilly, Joseph Leo	51		37 Clifton
Reinwald, Lewis T.	G g	Springfield, Ohio	17 Isabella
Retallick, Harold J.	G g	Eau Claire, Wis.	S.W. Cut-off
Reycroft, David Gage	50	Arlington	35 Maywood
Richard, Robert Charles	48	Melrose	16 Marble
Richards, Gerald O.	51	Rockport, Me.	Estabrook Hall
Richardson, Wendell Slayton	49	Bellows Falls, Vt.	3 Wyman
Rickard, William Jack	51		605 Millbury
Riggan, Byron Woodall	H g	East St. Louis, Ill.	511 Park Ave.
Rinkus, Louis Paul	48	Castle Shannon, Pa.	44 Fairhaven Rd.
Riordan, James Francis	51		106 Richmond Ave.
Risley, Edward Meredith	G g	Springfield	921 Main
Robie, Burton A.	48	Fisherville	
Roche, Helen Gertrude	50		493 Park Ave.
Rogers, Donald Sargent	Ed g	Barre	
Rolston, Glenn Everett, Jr.	51	Rome, N. Y.	Estabrook Hall
Rosati, Flavio Joseph	49		34 Gage
Rose, Dorian Mabyl	Ps g		16 Wyola
Rosen, Bernice Marion	Ps S	Bronx, N. Y.	24 Gates
†Rosenbaum, Joseph Hans	Ch g	Lowell	53 Charlotte
Rosenberg, Alan Lester	50		102 Granite
Rosenlof, Thelma	48	Nampa, Idaho	Blakeslee Hall
Rosenstein, Marcia Mae	48	Spencer	
Ross, Harmona Ferelich	Ps g	Dorchester	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Ross, Hervey Shaw	50	Southboro	
*Ross, Theodore John	48		12 Fairbanks
Rowley, Ruth Elliott	48		4 Cabot
Rubin, George	49	Brooklyn, N. Y.	33 May
Rubin, Marc Sheldon	50	New Haven, Conn.	36 Richards
Ruderman, Thera Cecile	48		53 May
Rupkus, Ruth C.	BA s, 49		54 Sagamore Rd.
Russell, William Frank	50		78 Burncoat
Ryan, John Donaher	49	West Newton	6 Downing
Sabolinski, Donald Edward	48	North Amherst	35 Maywood
Sadick, Phyllis Muriel	50		10 Lenox
Salvatelli, Geno Francis	51	Leominster	
Samara, Joseph	51		73 Orient
Sandberg, Richard Paul	49		62 Whipple
Sanderson, John Cushman	48		5 Harvard
Sandy, Catherine Isabella	50	Shrewsbury	
Sanford, Millicent Jean	50	Clinton	
Sanford, William Warren	50	Starrucca, Pa.	16 Marble
Sarando, Lucy Emerald	50		12 Page
Sargeant, Dorothy Pauline	Ed g		24 Hamilton
Sawyer, David Erickson	51		18 Huntington Ave.
Sawyer, Ivers Sidney	48	Berlin	
Schanberg, Betty Ruth	50	Clinton	42 Freeland
Schollard, William James, Jr.	51		83 Florence
Schroeder, Peter B.	H g	Storrs, Conn.	50 Woodland
Schuman, Robert Laver	51	Hyannis	Estabrook Hall
Schwab, Bernard	48		934 Main
Sears, Noel Chase	51	Dalton	Estabrook Hall
Seay, Claire Lorraine	51		32 Ames
*Segal, Miriam	En s		34 Morningside Rd.
Seltzer, Alden Seymour	50	Framingham	
Shatikian, Khachatoor	51	Teheran, Iran	766 Main
Shaub, Robert William	49	Clinton	
Shaw, Arnold Robert	Ed g		49 Hope Ave.
Shawkey, Ada Mariel	G F	Sigel, Pa.	3 Shirley
Sheahan, Alice Elizabeth	51		57 Havelock Rd.
Sheehan, Francis P.	50	Bridgeport, Conn.	324 Maple
Shenian, Popkin	50	Whitinsville	
Sheppard, Frederick Neil	51		5 West Oberlin
Shepro, David	48		Estabrook Hall
*Sher, David B.	48		426 Chandler
Sherman, William Andrew	50		6 Malden Ter.
Shih, Li-chang	G g	Changsha, Hunan, China	Estabrook Hall
Shiminski, Joan Mary	51		1036 Main
Shiminski, Paul Anthony	50		1036 Main
Shimukonis, Frank Joseph	49		26 Waverly
Shippee, Barbara Lucille	51	Southbridge	
Shooshan, Charles Harold, Jr.	48		42 Ormond
Shryer, Enid Merlyn	49		15 Oberlin
*Shulman, Bernard Herman	48	Dorchester	35 May
Shulman, Kenneth	50		168 June
Sibley, Edward Abbott	G g	Leicester	
Sibley, William Frederick	50	West Springfield	16 Marble
Siegel, Edward L.	Ps g	Dorchester	92 Granite
Sigel, Morton Herbert	51		94 Houghton
Silverman, Franklin Ira	48		429 Chandler
Silverman, Marian Linda	50	New York, N. Y.	Blakeslee Hall
Simmons, Clark William	H g	Manlius, N. Y.	171 Woodland
Simpkins, Vera Alice	Ps g	Bronx, N. Y.	5 Bancroft
Simpson, Dorothy Louise	51	West Boylston	
Simpson, Paul Edward	Ed g		64 Whipple
Sinclair, Edward Elliot	Ch g		61 Everard
Singer, John Jacob, Jr.	Ch g		11 Oberlin
Sirk, Joel Hayden	51		15 Vassar
Sistrand, Doris Gustava	48		30 Palisades
†Skiddell, Harris	50	Chelsea	53 Piedmont
Skinner, Marguerite MacPherson	50		98 Forest
Skogstrom, Paul Robert	50		63 Eunice Ave.
Slechta, Robert Frank	49		25 Delawanda Dr.
Sleuman, Frank Henry, Jr.	51		3 Oliver

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Sloan, James Horace	Ed g		21 Circuit Ave.
Smith, Anna Marie	51		70 Coolidge Rd.
Smith, Bruce Leslie	51	Rockport	Estabrook Hall
Smith, Charles Francis, Jr.	50		81 Piedmont
*Smith, Delwin Frank	50	Newtonville	14 Oberlin
Smith, Donald Everett	Ed g		19 Mayflower Circle
Smith, George Herbert	48	Weeks Mills, Me.	13 Gates
Smith, Nancy Jean	51		16 Holland Rd.
Smith, Reginald Joseph	Ec g		25 Brownell
Smith, Richard Stanley	49		27 Lee
Smith, Robert MacNaught	50	Grafton	70 Chester
Smith, Robert Nelson	51	London, Ontario, Can.	Princeton
Smith, Samuel Wallace	49	Sheffield, Ill.	Estabrook Hall
Sobol, John Andrew	G g		85 Seymour
Soderberg, Barbara Arlene	50		19 Breck
Sokoloff, Janet Sharp	50	New Haven, Conn.	Blakeslee Hall
Sonntag, George Joseph	50	Union-City, N. J.	16 Jaques Ave.
Sootkoos, Alphonse Charles	48	Auburn	
Sottery, Theodore Walter	49	Fort Devens	Estabrook Hall
Southwick, Albert Brown	H g	Leicester	
Spagnolo, Leo Peter	48	Tenafly, N. J.	9 Hawthorne
Spalding, Judson Wylder	50	Auburn	
Spaunburgh, Richard George	50		56 Copperfield Rd.
Spencer, Harry Irving, Jr.	50		740 Pleasant
Sperry, Herbert Stephen	51	West Boxford	
Spungin, Charlotte Isabelle	51	E. Greenwich, R. I.	Woodland Hall
Spungin, Marian Allyene	48	Greenwich, R. I.	Woodland Hall
Spungin, Nathan	49		58 Granite
Squier, Dean Firth	51	Jamestown, N. Y.	63 King
Stasiewicz, Henry Joseph	51		18 Epworth
Stearns, Harlan Emory	51	Winchendon	Estabrook Hall
Stevens, Donald Eberhardt	50	Branford, Conn.	2 E. Main St., Oxford
Stewart, Gilbert Boynton	49	West Boylston	
Stewart, Milton	51		7 Winslow
Stickney, Stanley Francis	51	Auburn	
Stock, Richard William	Ed g	Aurora, N. Y.	179 Lincoln
†Stolbof, Bernard	51	Albany, N. Y.	Estabrook Hall
Stone, William Edward	48		7 Schussler Rd.
Strates, Basil Stayros	51		21 Morningside Rd.
Streeter, Delena Elizabeth	50		728 Burncoat
Stuebi, Theodore Grove, Jr.	50	Springfield	16 Marble
Stupak, Ralph John	49	Leominster	245 James
Sturtevant, Thomas Charles	50	Concord	Circuit Ave.
Supovitz, Irving Louis	50		34 Pattison
Svenson, Chester Frederick	48		30 Button
Swana, Michael Richard	50	Dudley	
†Swansburg, Edward Freeman	49	Melrose	
Swanstrom, John Eric	51		20 Neptune Rd.
Swanstrom, Kenneth Edwin	51		24 Holland Rd.
Swenson, Richard Waltner	48	Garden City, N. Y.	74 Florence
Tagliavini, Carlo Armand	48	Springfield	16 Marble
Tashjian, John Edward	50		29 Glen
Tashjian, Robert John	51	West Boylston	
Tatham, Lewis Charles	48	Rockland, Me.	80 Murray Ave.
Taylor, Richard Allen	50	Charlton City	
Thayer, Nancy Ann	51	Shrewsbury	
Theodore, Louise	Ed g		8 Bluff
Thomas, Constantine	50	Lowell	32 Hitchcock
Thompson, Beverly Ann	51	Princeton	
Thompson, Vincent Paul	50		365 Cambridge
Thomson, John Roy	49		Estabrook Hall
*Thurlow, Henry Anderson	48	Leominster	
Thurston, Roger Tucker	51		20 Juniper Rd.
Tibbetts, Raymond Eugene	51		77 Pine View Ave.
Tiffany, Henry Dyer, Jr.	Ec g		4 Marston Way
Tillotson, Arline May	50		98 Perry Ave.
Tivnan, Edmund Lincoln	49		109 Endicott
Todd, Joseph R.	48	Woodville	
Tonna, Loretta Margaret	51		471 Salisbury
Tonseth, Rolf Scott	50	Marlboro, N. H.	1041 Main
Torres, Allan Francis	51	Brooklyn, N. Y.	Estabrook Hall
Tosi, Peter Alexander	51	Sterling	

NAME	CLASSIFICATION	HOME ADDRESS	LOCAL ADDRESS
Tothill, William Robert	50	Hardwick	
Townsend, Joyce	49	E. Woodstock, Conn.	Woodland Hall
†Travers, William Owen, Jr.	Ed g		5 Kimball
Trow, Warren Frank	51	Sterling	
Trussell, Barbara	51		41 Harvard
Tucker, Jean Cushman	48		9 Colonial Rd.
*Tufenkjian, Haig Robert	48		57 John
Turo, Joseph Anthony	49		9 Shamrock
Tuttle, Jean Wishart	Ed g		125 Malvern Rd.
Ullstrom, Paul Edward	51		28 Victoria Ave.
Ursoleo, Francis Paul	48		156 Shrewsbury
*Valiton, Carl Donald	48	Templeton	
Vamvas, Joanne Helen	49		100 Richmond Ave.
*Vance, James Elmon, Jr.	48, G g	Natick	59 Florence
†Vanderhoof, Irwin Thomas	Ch s	Boonton, N. J.	75 Lancaster
Vander Pyl, Adrian Weston	51	Rutland	
Vandersea, Mary Louise	49	Whitinsville	
Van Steenburgh, David Raymond	50	Framingham	
Vasil, George Victor	50		6 Rice Square
Verdolino, Victor Joseph	51		63 Hamilton
Vickers, Harold Earl, Jr.	50		138 Woodland
Viglucci, Andrew Thomas	51	Albany, N. Y.	Estabrook Hall
Vilandre, Charles Victor	49		48 Plantation
Vymetalik, Henry Jindrich	H g	Essex, England	20 Crystal
Wahlberg, Bertil Lennat	50		24 Roseland Rd.
Wang, Shan-Ching	H g	Shanghai, China	35 Hillcrest Ave.
Warne, Clinton Lee	Ec g	Amherst	59 Maywood
Warner, Maureen Mildred	H g		51 Howland Ter.
Washburn, Elaine	50		9 Congress
Weagle, Ervin Eldred	50	Shrewsbury	
Weiner, Milton Gershon	Ps g	Leicester	
Weinstein, Milton	48		161 Providence
Weinstein, Seymour	48		161 Providence
Weisberg, Leonard R.	50	New York, N. Y.	36 Richards
Wells, Jacquelyn True	50		157 Woodland
Wells, Walter Edward	50		55 Windsor
Westcott, Roger Temple	50	Belmont	1 Circuit Ave.
Wetherbee, David Kenneth	51		11 Dallas
Wetmore, Clayton Andrew	51	Norwalk, Conn.	Estabrook Hall
Wheeler, Alfred Lawrence	51	Leominster	
White, David Elliott	Ec g	Southbridge	
†Whitney, Howard Wright	Ec g		232 Lake Ave.
Whitney, Leon Edward, Jr.	51	Athol	Estabrook Hall
Wicks, Robert Hascal	50		44 Bellevue
Williams, Malcolm	48		79-2 Park Ave.
Williams, Ruth Anna	49	Northbridge	
Wilson, Carol	49		11 Berwick
*Wilson, Francis Duncan	Ed g	Cherry Valley	
Wilson, Martin Charles	48		35 Grenada
Witkowski, Florence Joanne	50		136 Washington
Woessner, Russell Howard	50	Lowell	34 Gates
Wolfson, Jack Leonard	48		929 Pleasant
Woodrich, Helga	50		638 Chandler
Woods, John Francis	51		102 Whitmarsh Ave.
Woolf, Martin Dell	50		127 Providence
Woolson, Gloria Dolores	50		102 Providence
Worth, Melvin Hersh, Jr.	50	New York, N. Y.	36 Richards
Wylie, William James, Jr.	49	Feeding Hills	59 Maywood
Xenos, Richard Anthony	50		65 Orchard
Yacuzzi, Thomas Joseph	48	Shrewsbury	
Young, D. Albert	48	Holden	
Youngren, Betty Saunders	51		79 Lakewood
Yurkiewicz, Edward Francis	48		63 Providence
Zaharatos, Andrew John	50	New York, N. Y.	16 Marble
*Zebrak, Nathan	48		16 Wabash Ave.
Ziegler, Joan Carol	51	New York, N. Y.	Woodland Hall
Zimmerman, Herbert Edward	50	Brookline	21 Grand
Ziu, Mary	48	Southbridge	
Zuk, Henry	51	New York, N. Y.	Estabrook Hall
Zukowski, Walter Henry	48		55 Arlington

II. SUMMER TERM STUDENTS (1947)

Abeles, Robert A., Worcester
Abrahamson, Sherman R., Duluth, Minn.
Adams, Evelyn M., Worcester
Addington, Lloyd B., Jr., Memphis, Tenn.
Adrian, Richard F., Worcester
*Agulnick, Sidney, Worcester
Ahearn, Margaret M., Worcester
Ahlstrom, John R., Worcester
Aiani, Thomas F., Jr., Chicago, Ill.
Alexander, Lewis M., East Dennis
Allen, John W., Jr., Worcester
Amback, Reginald, Jr., Worcester
Anderson, Donald F., Worcester
Anderson, John H., Shrewsbury
Andrews, Forrest, Uxbridge
Archambault, John J., Worcester
Armenti, Ralph A., Worcester
Arnold, Bernard, Worcester
Aronson, Charles E., Worcester

Babineau, Alexis A., Worcester
Bachand, Clifford B., Worcester
Baier, Clarence W., Jr., Melrose
Baird, Malcolm E., Worcester
Balamaci, Dennis, Woonsocket, R. I.
Barrett, James J., Jr., Worcester
Barrios, Alfred R., Worcester
Barron, Rae T., Worcester
Barsoum, Peter, Jr., Worcester
Basiul, Walter J., Worcester
Baskin, Myron A., Kenmore, N. Y.
Beck, Paul V., Worcester
Belles, Earl M., Worcester
Benigno, Russell R., Union City, N. J.
Bernatowicz, Albert J., Worcester
Bernklow, Rodger D., Thompson, Conn.
Berthiaume, Claire R., Uxbridge
Bibeau, Robert W., Worcester
Biedrzycki, Raymond F., Mendon
Bird, Margaret E., Leominster
Bjorkman, Evelyn J., Worcester
Blackington, Robert O., Needham Heights
Blaker, Robert G., Auburn
Blount, William G., Northboro
Boch, Oliver W., Patchogue, N. Y.
Bogosian, Paul, Worcester
Boisvert, Gregory L., Woonsocket, R. I.
Bolen, Jean L., Worcester
Boudreau, Florence A., Worcester
Bowker, Grant D., Worcester
*Brandli, William T., Worcester
Bridge, Elizabeth G., Hazardville, Conn.
Brigham, Walter L., Northboro
Brooks, Catherine L., Washington, D. C.
Brooks, Harriet D., Worcester
Brown, Bernice E., Grafton
Brown, Carolyn L., No. Grafton
Brown, Richard C., Worcester
Bugbee, Betty E., Oxford
Bugbee, Francis P., W. Brookfield
Burman, Savitri, New Delhi, India
Burner, Richard M., Worcester
Burns, John C., Worcester
Burns, Mary K., Worcester
Burton, Dorothea E., Buffalo, N. Y.
Bush, Everett H., Westfield
Butenas, Carl, Worcester
Butterfield, Ruth A., Westminster
Byrn, Francis Y., E. Aurora, N. Y.

Callan, Barbara A., Worcester
Calender, Joseph H., Roxbury
Cardozo, Robert L., Kew Gardens, N. Y.
Carini, Louis P., Framingham
Carlisle, Robert, Worcester
Carlson, Kenneth W., Shrewsbury
Carney, Thomas P., Worcester
Carraher, Eugene F., Kankakee, Ill.
Carroll, Francis L., Worcester
Carruth, William G., Shrewsbury
Caruso, Mary L., Burlington, N. J.
Carvalho, Vincent G., E. Pepperell
Cassidy, Clare T., Uxbridge
Catlin, Winton I., New Britain, Conn.
Chaberek, Stanley, Jr., New Bedford
Champeau, Harold C., Quincy
Chupis, Ruth A., Shrewsbury
Clapkin, Marvin B., Albany, N. Y.
Coghlin, Cynthia, Worcester
Cohen, Ina T., Worcester
Cohen, Stuart M., Worcester
Cole, F. Everett, Northboro
Collins, John F., Worcester
Colton, John Bowne, Jr., Worcester
Conover, Walter C., Red Bank, N. J.
Cormier, Carlton F., Marlboro
Cournoyer, Paul R., Spencer
Courtney, Marie F., Worcester
Cowan, Frank, Jr., Milford, Conn.
Coyle, Jack B., Jersey City, N. J.
Cramer, Herbert W., Brooklyn, N. Y.
Crane, Vera R., Athol
Crickard, George E., Shrewsbury
Crockett, Harold E., Worcester

Dagirmanjian, Arthur, Whitinsville
Daly, Charles F., Worcester
Daly, Mary F., Worcester
Danstedt, Robert S., Worcester
Davidian, David B., Worcester
Davis, George H., Jr., Auburndale
Day, Dorothy M., Waynesville, Ohio
Day, Richard L., Kittery Point, Me.
Dean, John H., Oswego, N. Y.
Dear, Walter C., Worcester
deJonge, Coen K., Lewanna, N. Y.
Del Rosso, Stephen, Dorchester
Denardo, John E., Waterbury, Conn.
DeRosier, Albert P., Los Angeles, Cal.
Derosier, Robert F., Leominster
Dickinson, Howard, Jr., Auburn
Dinerstein, Jenny, Colchester, Conn.
Dingman, Paul R., Palmer
Divoll, Lincoln A., Worcester
Dix, Ernest S., Starrucca, Pa.
Donnelly, Henry C., Worcester
Donoghue, Sheila V., Worcester
Donohue, David A., Worcester
Donohue, Harry J., Teaneck, N. J.
Doolittle, Nancy, Worcester
Dorsey, James J., Jr., Worcester
Dowd, Earl E., Worcester
Doyle, Ann M., Worcester
*Doyle, Henry M., Hudson
Drown, Margaret C., W. Boylston
Drury, Lawrence C., Worcester
Dryer, Arthur O., Waterbury, Conn.
Dumas, Frances J., Sturbridge
Dunleavy, Gareth W., Putnam, Conn.
Dwyer, Henrietta M., Worcester

Easton, John R., Lynn

Eaves, John, Jr., Southbridge
Eckman, Harold, Worcester
Ekblaw, Elsa M., No. Grafton
Ela, Charles W., Worcester
Elby, Albert R., New York, N. Y.
Eliopulos, George N., Worcester
Eliopulos, James N., Worcester
Ellis, Ralph W., Jr., Worcester
Ericson, Marion F., Auburn
Errede, Michael A., Worcester
Esterly, Henry H., Northboro
Evans, David S., E. Douglas
Every, Leonard, Glens Falls, N. Y.

Farnum, Forest T., Gardner
Feigenson, Ann A., Worcester
Feldman, Ralph M., Worcester
Femina, Antonio J., Milford
Fitzmaurice, Henry F., Auburn
Flagg, Earle V., Worcester
Flynn, Ann P., Holyoke
Foley, John F., Fall River
Fontaine, Mary K., E. Douglas
Foote, Francis W., Rutland, Vt.
*Fotiades, Alexander G., Worcester
Foy, Walter L., W. Springfield
Franklin, Jacob, Webster
Frazier, Philip N., Galveston, Texas
Freed, Aubyn, Worcester
Freelander, Samuel J., Worcester
Freer, George H., Liberty, N. Y.
Frost, Albert E., Jr., E. Douglas
Frost, Carl F., Worcester

Gallo, Louis C., Worcester
Gates, Jesse A., Webster
Gibson, Stuart C., Grafton
Gillespie, Arthur M., Northbridge
Gilligan, Frances O., Worcester
Gilmore, J. Arthur, Arkansas City, Kans.
Ginett, Lyndon E., St. Albans, Vt.
*Glassman, Sidney, W. Hartford, Conn.
Goodrich, Elizabeth P., Worcester
Gordon, Vita E., Worcester
Graden, Thurston H., Worcester
Granger, Wilfred R., Worcester
Gray, Grant H., Providence, R. I.
Green, Howard L., Millburn, N. J.
Green, Howard R., Shrewsbury
Greenhalge, Barbara A., Worcester
Gruss, Sally R., Norwalk, Conn.
Guerin, Henry J., Quinebaug, Conn.
Gullbrand, Howard A., Worcester
Gurfinkel, Abraham L., Worcester

Haddad, Richard J., Worcester
Hague, Gladys E., Worcester
Haith, William L., Southbridge
Halko, Henry J., Webster
Hall, Barbara A., Shrewsbury
Hallahan, John J., Worcester
Hallock, Gilbert V., Worcester
Harding, Raymond P., Pen Argyl, Pa.
Haroian, Mary, Worcester
Haroian, Rose D., Worcester
Harris, J. Edmond, E. Brookfield
Harrison, Nathan B., Worcester
Hassan, Mohamed I., Cairo, Egypt
Hawkins, Frederick W., Princeton
Healey, Frank H., Jr., Fitchburg
Hedberg, Harold W., Worcester
Heller, Martin, Brooklyn, N. Y.
Helm, David A., Worcester
Heon, Pauline F., Worcester
Hess, Clarke F., Norristown, Pa.
Higginbotham, Forrest I., Worcester
*Higgins, Marianne C., Shrewsbury
Higgins, William T., Hingham
Highberg, Emeline C., Worcester
Hill, Raymond B., Worcester
*Hobson, Nina F., Southbridge
Hofschire, Irja R., Worcester
Holland, Howard O., Worcester
Holmes, Betty, Whitinsville
Hoogasian, Harry, Worcester
Hortman, Helen E., Worcester
Hortmen, Jacob C., Jr., Minden, La.
Houlihan, John E., Worcester
Houston, Ann-Ruth J., Washington, D. C.
Howes, Douglas E., Jr., Worcester
*Hubbard, Carol B., Windsor, Conn.
Hultquist, Warren E., Millbury
Hunter, Elizabeth, Framingham

Illingworth, Robert K., Worcester

Jacobson, Daniel, Newark, N. J.
Jameson, Harold, Jr., Worcester
Jamgochian, Hagop H., Shrewsbury
Jardarian, Zaven, Worcester
Jewell, Allan W., Webster
Johnson, Alan, Lynn
Johnson, Arthur R., Worcester
Johnson, Nancy M., Fitchburg
Johnson, Ralph R., Worcester
Johnson, Sonya A., Worcester
Johnson, Wallace A., Worcester
Jones, Dudley P., Worcester
Jones, Malcolm K., Worcester
Jordan, Robert L., Worcester
Joress, Sumner M., Roxbury
Joudry, Harold E., Worcester

Kalil, Eli, Worcester
Kanner, Herman M., E. Charleston, W. Va.
Karazia, Ernestine V., Worcester
Katte, Martin J., Arlington, Va.
Kelleher, Robert L., Shrewsbury
Kellermann, Frederick D., Acton, Ill.
Kellerman, Mary C., Acton, Ill.
Kelliher, Maurice A., Worcester
Kemp, James M., Worcester
*King, Bettye M., Spencer
King, Elizabeth P., Worcester
King, Kenneth G., Tulsa, Okla.
Klamkin, Charles, Waterbury, Conn.
Kneeland, David J., Worcester
Kneller, Leighton A., Worcester
Knight, Carolyn, Worcester
Knowles, Robert M., Worcester
Knox, Roy I., Worcester
Koger, Shirley J., Augusta, Ga.
Korgen, Mali, Newfolden, Minn.
Kranich, Diane, Worcester
Kurtyka, Joseph W., New Britain, Conn.

Laakso, Eino F., Sturbridge
Labenski, Therese M., Worcester
Laggis, Mary C., Ayer
Laird, George D., Dorchester
Lally, John F., Worcester
LaPlante, Bernard J., Worcester
Lapinskas, Aldonna, Worcester
Lategola, Michael T., Worcester
Latham, George R., Worcester

Leavitt, Milton, Worcester
LeBlanc, Ozias P., N. Oxford
LeClair, Edward E., Jr., Southbridge
Lennan, David R., Worcester
Lepore, Francis E., Clinton
Levy, Alfred J., Boston
Liard, Theodore J., Jr., Providence, R. I.
Liberty, Richard R., Worcester
Lincoln, Brayton, Worcester
Ljungberg, Betty P., Worcester
Lonstein, Leon, Worcester
Lorens, Leonard C., Worcester
Lucas, Frances S., Worcester
Lumb, Ralph F., Shrewsbury

Macewicz, Agrippena, Worcester
MacKay, Norman D., Worcester
Magnusson, Roger P., Worcester
*Mainville, Joseph M., Rochdale
Malick, Donald, New Bedford
Marion, Raymond J., Spencer
Marsh, Donald W., Princeton
Martin, Eleanor, Marlboro
Martineau, Donald P., Auburn
Maskell, Barbara, Worcester
Mason, Edward, Dorchester
Matern, Herman R., Worcester
Matthews, Esther E., Princeton
Mauke, Otto R., Webster
Maxwell, James W., Worcester
Maynard, Wentworth C., Jr., Worcester
Mazur, Bernard, Worcester
McCallum, Charles A., Jr., Millbury
McCarthy, Robert V., Worcester
McCarty, Margaret A., Clinton
McDonald, John J., Hackensack, N. J.
McDonough, Thomas J., Worcester
McIntyre, Wallace, Niagara Falls, N. Y.
McMurtrie, John W., New York, N. Y.
McNamara, Charles W., Worcester
Melia, John J., Worcester
Mensoian, Michael G., Jr., Worcester
Mero, Esther B., Worcester
Miles, Robert A., Worcester
Milligan, Mary-Clare, Worcester
Mita, Walter V., Worcester
Modlinger, Ralph E., Ware
Monfredo, Dominic J., Worcester
Morgan, Lewis W., Rochdale
Moriarty, Marion L., Worcester
Morton, Beverly, Worcester
Moseley, William R., Worcester
Moyer, C. Josephine, Reading, Pa.
Murphy, E. Jean, Worcester
*Murphy, Eugene J., Worcester
Murphy, Cornelius B., Worcester
*Murphy, Paul F., Worcester
Murray, Paul W., Worcester
Mysliwiec, Chester P., Worcester

Nanigian, Jacob, Paxton
Neary, Beatrice L., Worcester
Nelson, Hersey B., Worcester
Nelson, Paul E., Worcester
Nelson, Paul J., Worcester
Nichols, Eleanor M., New Haven, Conn.
Noone, James J., Worcester
Nore, Nancy, Worcester

O'Connor, Agnes M., Worcester
O'Donnell, Paul D., Worcester
Ogilvie, Bruce C., Athens, Ga.
Ohman, Howard L., Worcester
O'Leary, Daniel R., Worcester
O'Leary, Robert E., Worcester
Oluch, Mehmet, Istanbul, Turkey
Olund, Paul H., Worcester
O'Mara, Joseph F., Wilkinsonville
Osborne, Kenneth M., Worcester
Osten, Donald W., Jamaica, N. Y.
Ostroff, Barbara J., Gardner
Overlock, John E., Worcester

Pachanian, Sempad A., Worcester
Pagnotto, Leonard D., Fitchburg
Palley, Melvin M., Worcester
Paly, Sidney N., Brooklyn, N. Y.
Panaccione, Joseph J., Barre
Parker, Edward T., Whitinsville
Parker, Fred W., Worcester
Parker, Lester W., Rochester, N. Y.
Parmenter, Guy N., Burwell, Nebraska
Passey, George E., Wrentham
Payne, Charles E., Worcester
Peck, Donald E., Barre
Pemstein, Joan S., Worcester
Perham, Margaret F., Worcester
Peterson, David A., Worcester
Phinney, Alice P., Shrewsbury
Pierce, Francis J., Worcester
Piper, Ada G., Washington, D. C.
Plotczyk, Raymond A., Westboro
Plue, Bradford B., Worcester
Plumb, Robert C., Springfield
Porochniak, Paul S., Salem
Porter, Charles W., Agawam
Praglin, Julius, Boston
Pratt, Kenneth W., Leicester
Proctor, Robert M., Worcester
Prue, Arthur A., Delmar, N. Y.
Putnam, Emmons W., Jr., Worcester

Quackenbush, Stanley G., Worcester
Quaiel, Philip J., Jr., Worcester
Quinn, Margaret, Whitinsville

Rackliff, Virginia C., Easton, Me.
Ramirez de Arellano, Ubaldino,
San German P. R.
Reardon, John P., Worcester
Rebel, Benjamin P., Eustis, Fla.
Reed, Benjamin V., Worcester
Rees, David J., Albany, N. Y.
Retallick, Harold J., Eau Claire, Wis.
Richard, Robert C., Melrose
Richards, Janet M., Fitchburg
Richmond, Carolyn, Worcester
Riggan, Byron Woodall, E. St. Louis, Ill.
Rinkus, Louis P., Castle Shannon, Pa.
Risley, Edward M., Springfield
Robie, Burton A., Fisherville
Robie, Martin L., Worcester
Roche, David J., Worcester
Rogers, Donald S., Barre
Rosati, Flavio J., Worcester
Rosenberg, Alan L., Worcester
Rosenstein, Marcia M., Spencer
Ross, Theodore J., Worcester
Rossland, Barbara A., Worcester
Rowley, Ruth E., Worcester
Rowse, Ralph W., Noranda, Quebec,
Canada
Rowse, Winifred H., Noranda, Quebec,
Canada
*Roy, Stanley A., Worcester
Rubin, George, Brooklyn, N. Y.
Ruderman, Thera C., Worcester
Rudnick, Leo H., Worcester

*Runstrom, Janice B., Leominster
Rupkus, Ruth C., Worcester
Russell, John E., Worcester

Sabolinski, Donald E., Amherst
Sack, Leo P., Worcester
Sandberg, Richard P., Worcester
Sanderson, John C., Worcester
Sandy, Catherine I., Shrewsbury
Schadegg, Francis J., Northboro
Schleich, Miriam G., Worcester
Schroeder, Peter B., Storrs, Conn.
Schwab, Bernard, Worcester
Schwab, William K., Jr., Pleasantville, N. S.
Shatikian, Khachatoor, Teheran, Iran
Sheehan, Francis P., Bridgeport, Conn.
Shepro, David, Worcester
Sher, David B., Worcester
Shimukonis, Frank J., Worcester
*Shooshan, Anthony, Worcester
Shooshan, Charles H., Jr., Worcester
Shugrue, Barbara M., Worcester
Sibley, Edward A., Leicester
Sibley, William F., W. Springfield
Silverberg, Joseph E., Worcester
Silverman, Franklin I., Worcester
Simmons, Clark W., Manlius, N. Y.
Simpson, Paul E., Worcester
Sinclair, Edward E., Worcester
Singer, James P., Miami, Fla.
Singer, John J., Worcester
Singer, Naomi J., Worcester
Slechta, Robert F., Worcester
Sloan, James H., Worcester
Smith, Jean E., Auburn
Smith, Marilyn E., Sutton
Smith, Richard S., Worcester
Smith, Samuel W., Sheffield, Ill.
Sonntag, George J., Worcester
Sootkoos, Alphonse C., Auburn
Spagnolo, Leo P., Tenafly, N. J.
Spungin, Nathan, Worcester
Steere, Howard C., Worcester
Stevens, James M., Worcester
Stone, William E., Worcester
Strogoff, Myra E., Worcester
Stuebi, Theodore G., Jr., Springfield
Stupak, Ralph J., Worcester
Sullivan, Arthur F., Holden
Sullivan, Cornelius S., Worcester
Sullivan, James A., Worcester
Sullo, Joseph G., Waterbury, Conn.
Sulzberger, Lore, Southbridge
Svenson, Chester F., Worcester
Swan, Edward J., Jr., Worcester
Swana, Michael R., Dudley
Swenson, Richard W., Garden City, N. Y.

Taaffe, Edward J., Jr., Chicago, Ill.
Tagliavini, Carlo A., Springfield
Tashjian, John E., Worcester
Taylor, Gretchen D., Spencer
Thomas, Constantine, Lowell
Thompson, John W., Jr., Worcester
Thurlow, Henry A., Leominster
Todd, Joseph R., Worcester
Tolman, Ellen D., Auburn
Travers, William O., Jr., Worcester
Trippi, Anthony J., Worcester
Tufenkjian, Haig R., Worcester
Turner, John R., Springfield
Turo, Joseph A., Worcester
Tyson, Mazie O., Jacksonville, Fla.

Ursoleo, Frances P., Worcester

Valiton, Carl D., Templeton
Vamvas, Joanne H., Worcester
Vance, James Elmon, Jr., Worcester
Vandersea, Mary L., Whitinsville
Van de Workeen, Melvin C., Worcester
Van Steenburgh, David R., Framingham
Viens, Roger G., Worcester

Wade, Harold H., Jr., Natick
Warner, Stanley S., Worcester
Warren, George B., III, Taunton
Waszkiewicz, Chester, Worcester
Weiner, Milton G., Worcester
Weinstein, Milton, Worcester
Weinstein, Seymour, Worcester
Weslowe, Lewis J., New Bedford
White, Charles J., Worcester
White, Virginia M., Worcester
Whitney, Howard W., Worcester
Williams, Clarence S., Mena, Ark.
Williams, Malcolm, Worcester
Wilson, Donald P., Worcester
Wilson, Francis D., Cherry Valley
Wilson, Martin C., Worcester
Witkowski, Florence J., Worcester
Woessner, Russell H.. Lowell
*Woods, John F., Worcester
Woolf, Martin D., Worcester
*Wright, Enoch G., Brimfield
Wylie, William J., Jr., Feeding Hills

Young, D Albert, Worcester
Yurkiewicz, Edward F., Worcester

Zebrak, Nathan, Worcester
Zukowski, Walter H., Worcester
Zulieve, Anthony J., Worcester

An asterisk (*) indicates a student not in residence for the entire session.

III. THOSE IN RESIDENCE LESS THAN ONE SEMESTER, 1947-48

NAME	CLASSIFICATION
Baskin, Marion June	En s
Bovill, Samuel George	51
Brady, William Robert	51
Branagan, Francis Carr	51
Carlo, James John	Ch s
Clough, Byron Bartlett	51
Cormier, Carlton Foch	Ed g
Dow, Edmund James	51
Every, Leonard	49
Fuller, Ann Doten	50
Gravel, Norman Rene	51
Harwood, Irene Marie	48
Johndrow, Raymond Francis	50

NAME	CLASSIFICATION
Karcasinas, Corrine Cecelia	51
Lawson, Herbert Leroy, Jr.	51
Maloney, Robert William	51
Maynard, William Snyder	51
McKeon, Anne Margaret	50
Muller, Gerald Eugene	50
Murphy, Paul Florence	49
Pacesas, Adolph Clarence	51
Pettit, Sally	48
Ramirez de Arellano, Ubaldino	50
Runstrom, Janice Bassett	49
Schiff, Gilbert Mitchel	51
Stone, John A.	51
Stevens, James Masefield	Ed g

SUMMARY 1947-48

			Men	Women	Total
Undergraduates			614	243	857
	Men	Women			
Freshmen	186	71			
Sophomores	191	75			
Juniors	121	54			
Seniors	116	43			
Graduate Students			122	34	156
Special Students			11	14	25
Candidates for the B.Ed. degree			1	—	1
Summer Term (1947)			403	119	522
Total			1151	410	1561
Less Duplications			236	43	279
Net Total			915	367	1282

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Inquiry Blank

Correspondence should be addressed as follows:

Regarding admission to the college or to the summer term or as a special student, to the Dean of the College.

Regarding admission to the graduate school, to the chairman of the department in which the applicant is interested.

Applications should be filed as early as possible. *Unduly late applications may fail to receive consideration.*

Applications for admission in September should, so far as is possible, be filed before March 1.

CLARK UNIVERSITY

REQUEST FOR "APPLICATION FOR ADMISSION" BLANKS

Name ....
(Last name) (First name) (Middle name)
Mail address ....

....

....

I am interested in admission to (please check below):

The men's college ....
The women's college ....
The graduate school ....

I am particularly interested in the department or division of:

....

I plan to enter (date) ....
Date of this application ....

CLARK UNIVERSITY

Commencement Week

PROGRAM

1948

WEDNESDAY MAY NINETEENTH

Senior Class Banquet	6:30 P M

THURSDAY MAY TWENTIETH

Senior Promenade	9 - 1

FRIDAY MAY TWENTY FIRST

Alumni Council Lounge Room Alumni Gymnasium	4 P M

SATURDAY MAY TWENTY SECOND

Alumni Day

Annual Meeting Alumni Association Lounge Room Alumni Gymnasium	10 A M
Class Day Exercises Atwood Hall	11 A M
Alumni Luncheon Alumni Gymnasium	1 P M
Reception to Alumni and their Families at the home of President and Mrs. Jefferson	4 - 6 P M
Alumni Reunion Dinners	6:30 P M

SUNDAY MAY TWENTY THIRD

Baccalaureate Services 10 A M
Atwood Hall
Address by
The Reverend Herbert Gezork
Andover Newton Theological School

Commencement Exercises 4 P M
Atwood Hall
Address by
The Honorable Christian A. Herter
Representative from Massachusetts
Congress of the United States

Following the Commencement Exercises President and Mrs. Jefferson will hold a reception at their home for the graduates, their families, and guests of the University.

Admission to the Commencement Exercises is by ticket only.

Reservations for Alumni for Commencement events should be made through the Alumni Office. Tickets for the Alumni Luncheon are $2.00 (tax included) and may be obtained from the Alumni Office. Reservations for the Luncheon must be made before Tuesday, May eighteenth.

Special reunions will be held by the Classes of 1908, 1913, 1918, 1923, 1928, 1933, 1938, 1943 and 1947.

CLARK UNIVERSITY

COMMENCEMENT EXERCISES

OF THE

1948 SUMMER TERM

AUGUST 27, 5:00 P.M.

PRELUDE: Prelude and Fugue in D Minor *Bach*

PROCESSIONAL: March from 'Semele' *Handel*

COMMENCEMENT ADDRESS
President Howard B. Jefferson

CONFERRING OF DEGREES

BACHELOR OF EDUCATION

Gertrude Louise Goodlight
V. Theresa Kuivila

BACHELOR OF BUSINESS ADMINISTRATION

John Russell Ahlstrom

Donald Fernland Anderson

Clifford Brodeur Bachand

Earl Edmund Dowd

Thurston Harold Graden

Howard Axel Gullbrand

Martin Katte, Jr

Thomas Joseph Lynch

Wentworth Charter Maynard, Jr

BACHELOR OF BUSINESS ADMINISTRATION WITH HONOR

Harry Joseph Donohue *with Honor in General Course*

BACHELOR OF ARTS

Reginald Amback, Jr.
Robert Irving Anderson
Paul Victor Beck
Paul Bogosian
David Richard Bortman
Harriet Brooks
Joseph Burack
Ruth Alden Butterfield
Robert Lopes Cardozo
Vincent George Carvalho
Ruth Ann Chupis
Vera Rose Crane
Arthur Dagirmanjian
Lincoln Allen Divoll
Henry Martin Doyle
Forest Thomas Farnum
Richard David Gale

Grant Harry Gray
John Joseph Hallahan
Howard Owen Holland
Zaven Jardarian
Joseph Walter Kern
Ralph Elmer Modlinger
Jacob Nanigian
Paul Henry Olund
Emmons Waldo Putnam, Jr
Burton Aldrich Robie
Robert William Shaub
Charles Harold Shooshan, Jr
Alphonse Charles Sootkoos
Leo Peter Spagnolo
Lewis Charles Tatham
Martin Charles Wilson

BACHELOR OF ARTS WITH HONOR

Joseph Holligan Callender *with Honors in Economics and Sociology*
Roy Irving Knox *with Honors in Economics and Sociology*
Robert William Macdonald *with Honor in General Course*
Beverly Morton *with Honor in General Course*

BACHELOR OF ARTS WITH HIGH HONOR

Henry James Halko *with High Honor in General Course and with Honors in History and International Relations*

Irving Hurwitz *with High Honor in General Course*

Richard Waltner Swenson *with High Honor in General Course*

BACHELOR OF ARTS WITH HIGHEST HONOR

Albert John Bernatowicz *with Highest Honor in General Course*

MASTER OF ARTS

In Economics and Sociology

John Edward Laffey
Bernard James LaPlante
David Richards Lennan
Paul Daniel O'Donnell

In Geography

Genevieve Clark
Lea Theresa Hearn
Hazel Marion Latendress
Theodore John Liard, Jr
Marguerite Pauline Plante

In History and International Relations

George William Anderson
William Gardner Blount
Edward Orr Elsasser
Jean Thelma Fishkin
Arthur Dennis Lane, Jr
Kenneth Cauldwell MacArthur
Otto Russell Mauke

DOCTOR OF PHILOSOPHY

In Geography

Merle Wentworth Myers
Gordon B. Schilz

RECESSIONAL: Occasional Piece *Handel*

ORGANIST: MR. H. EARLE JOHNSON

Following the Commencement Exercises President and Mrs. Jefferson will hold a reception at their home for the graduates, their families, faculty, guests of the University, and all students of the summer session.

CLARK UNIVERSITY

BACCALAUREATE SERVICES

In Atwood Hall
May Twenty-third, Nineteen Hundred and Forty-eight
At Ten O'Clock

PROGRAM

Prelude and Fugue in C Minor *Bach*

Processional

Invocation President Howard B. Jefferson

Scripture Reading President Howard B. Jefferson
Psalm 46

Hymn—St. Anne

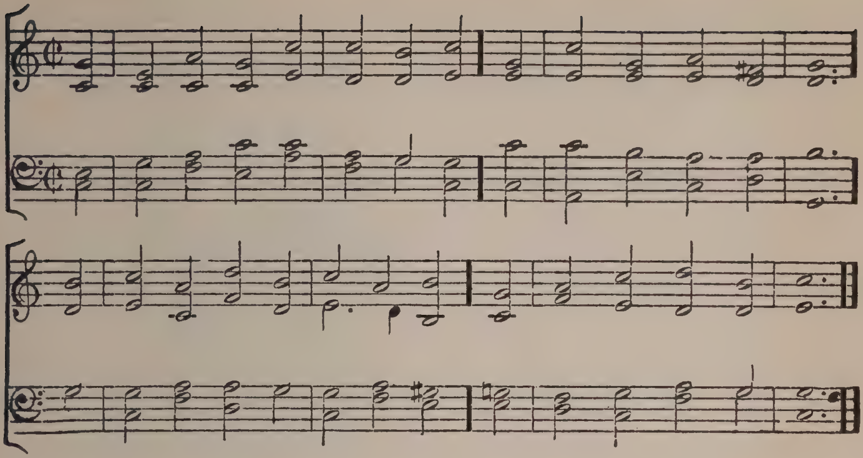
Sermon
"Our Strongest Weapon—Faith"
The Reverend Herbert Gezork

Hymn—Old Hundredth

Benediction The Reverend Herbert Gezork

Recessional

Prelude and Fugue in D Minor *Bach*



ST. ANNE C.M.

O God, our help in ages past,
  Our hope for time to come,
Our shelter from the stormy blast,
  And our eternal home.

Before the hills in order stood,
  Or earth received her frame,
From everlasting Thou art God,
  To endless years the same.

Under the shadow of Thy throne
  Thy saints have dwelt secure;
Sufficient is Thine arm alone,
  And our defense is sure.

A thousand ages in Thy sight
  Are like an ev'ning gone;
Short as the watch that ends the night.
  Before the rising sun.

O God, our help in ages past,
  Our help for time to come,
Thou art our guide while ages last,
  And our eternal home.

Isaac Watts

(St. Anne is taken from the famous "Worcester Collection," printed in this city by Isaiah Thomas in 1786.)

OLD HUNDREDTH L.M.

Be Thou, O God, exalted high,
And as Thy glory fills the sky,
So let it be on earth displayed,
Till Thou are here and now obeyed.

(Old Hundredth is the only hymn popularly surviving today from the "Bay Psalm Book," the first book printed in America, at Cambridge in 1640)

Organist: Mrs. Stanley N. McCaslin

The audience is requested to stand while the procession leaves the hall

CLARK UNIVERSITY

Fifty-eighth Annual Commencement

MAY 23, 1948

WORCESTER, MASSACHUSETTS

Order of Exercises

Prelude

Allegro con fuoco from Sonata in B minor *Guilmant*
Scherzo *Bossi*
Grand choeur *Dubois*

Processional

Invocation THE REVEREND HERBERT GEZORK
Andover Newton Theological School

Announcements by the President

Commencement Address
THE HONORABLE CHRISTIAN A. HERTER
Representative from Massachusetts
Congress of the United States

Conferring of Degrees

Benediction THE REVEREND HERBERT GEZORK

Recessional *Gaul*

The audience will kindly remain standing during the recessional

Candidate for the Degree of Bachelor of Education

Robert Spencer Danstedt

Candidates for the Degree of Bachelor of Business Administration

Reginald Amback, Jr.
William Glenn Carruth
Arthur Richard Hansen
Shirley Barbara Howard
June Pearl Joyce
George Robert Latham
John James Melia
Nancy Morse
Stanley George Quackenbush
Donald Edward Sabolinski
John Cushman Sanderson
Chester Frederick Svenson
Henry Anderson Thurlow
Haig Robert Tufenkjian
Carl Donald Valiton
Milton Weinstein
Thomas Joseph Yacuzzi

Candidate for the Degree of Bachelor of Business Administration with Honor

Jack Leonard Wolfson *with Honors in Business Administration*

Candidate for the Degree of Bachelor of Business Administration with High Honor

Walter Henry Zukowski *with High Honor in General Course*

Candidate for the Degree of Bachelor of Business Administration with Highest Honor

Howard Irving Dickinson *with Highest Honor in General Course and with Honors in Business Administration*

Candidates for the Degree of Bachelor of Arts

Nello Alfred Allegrezza
Bernard Arnold
Norman Bennett Asher
Walter Joseph Basiul
Earl Melvin Belles
Herbert Helmer Benson
Barbara Ellen Brodsky
Richard Carson Brown
Shirley Mary Caisse
William Glenn Carruth
Arnold Edward Chandler
Kenneth Ashton Chandler
Ashur George Chavoor
Marvin Babbitt Clapkin
Walter Calvin Conover
Herbert William Cramer
Georgianna Assunta DeLollis
John Edward Denardo
Robert Frederick Derosier
Carolyn Merriam Doolittle
Daniel Martin Dworkin
Harold Eckman
James Nicholas Eliopulos
Alfred Simon Erlich
Michael Anthony Errede
Evelyn Farmer
Martin Benjamin Finks
Julius Sydney Greenstein
Margaret Monica Griffin
Lee Gurel
Joseph Edmond Harris
Nathan Benjamin Harrison
Harry Hoogasian
Julio Irizarry
Doris Elisabeth Johanson
Arthur Russell Johnson
Sonya Alice Johnson
Sumner Mark Joress
Charles Klamkin
Leighton Alvin Kneller
Wallace Samuel Kreisman
Mary Cyriakula Laggis
Richard Bennett Lavine
Roger Philip Magnusson
Donald Malick
Arleen Marie Manning
William Butler Martin, Jr.
Donald Paul Martineau
Edward Mason
Margaret Ann McCarty
Eleanor Jean Murphy
Hersey Bradford Nelson
Shirley Louise Nickerson
Anne Elizabeth Nolan
Kenneth Marceline Osborne
Sempad Arthur Pachanian
David Anshelm Peterson
Carmen Santa Pizzuto
Clifford Hector Pontbriand
Julius Praglin
Philip Joseph Quaiel, Jr.
Virginia Christina Rackliff
Robert Charles Richard
Louis Paul Rinkus
Thelma Rosenlof
Marcia Mae Rosenstein
Theodore John Ross
Ruth Elliott Rowley
Thera Cecile Ruderman
Ivers Sidney Sawyer
David Shepro
David Benedict Sher
Bernard Herman Shulman
Franklin Ira Silverman
George Herbert Smith, Jr.
Marian Allyene Spungin
William Edward Stone
Carlo Armand Tagliavini
Jean Cashman Tucker

Candidates for the Degree of Bachelor of Arts (Cont'd)

Francis Paul Ursoleo	D. Albert Young
James Elmon Vance, Jr.	Edward Francis Yurkiewicz
Frances Lucas Weisse	Nathan Zebrak
Malcolm Williams	Mary Ziu

Candidates for the Degree of Bachelor of Arts with Honor

Eugene Francis Carraher *with Honor in General Course and with Honors in History and International Relations*

Virginia Wyman Dand *with Honor in General Course and with Honors in Romance Languages*

Richard Lorey Day *with Honors in Geography*

Sylvia Miriam Globus *with Honors in German*

Gladys Elizabeth Hague *with Honor in General Course and with Honors in Psychology*

Mary Haroian *with Honors in Psychology*

Emily Elizabeth Kokocinski *with Honors in Economics and Sociology*

Lois Walbridge Kunzelman *with Honor in General Course*

Edward Emile LeClair, Jr., *with Honor in General Course and with Honors in Economics and Sociology*

Harold Edmond Lurier *with Honors in History and International Relations*

Ina Cohen Mason *with Honor in General Course*

Bernard Mazur *with Honor in General Course*

Richard Woodbridge Moriarty *with Honor in General Course*

Margaret Mary Noe *with Honors in German*

Sidney Nathan Paly *with Honor in General Course*

Joseph Alfred Raboin *with Honor in General Course*

Doris Gustava Sistrand *with Honor in General Course*

Seymour Weinstein *with Honors in Economics and Sociology*

Candidates for the Degree of Bachelor of Arts with High Honor

Malcolm Everett Baird *with High Honor in General Course*

Ralph Elliott Cook *with High Honor in General Course*

Candidates for the Degree of Master of Arts in Education

Florence Arvidson Abbot
Dorothy Harriet Aldridge
Jean Ethel Crotty
Stephen Del Rosso
Jacob Franklin
Ella Washington Griffin
Robert Vincent McCarthy
Ruth Phyllis Meyer
Dominic John Monfredo

Candidates for the Degree of Master of Arts

Biology

John Bowne Colton, Jr.

Chemistry

Stanley Chaberek, Jr.

Economics and Sociology

Clinton Lee Warne

Geography

Sherman Raymond Abrahamson
Lewis McElwain Alexander
Beatrice Lillian Burke
John Henry Dean
Ernest Sanford Dix
Mohamed Bahy El-Din El-Hefny
Clarke Freas Hess
Natalie Eva Nason

History and International Relations

David Bonfeld
William Richard Brotherton
Henry Harmon Esterly
Donald Walter Osten
Gordon Keith Prouty
Byron Woodall Riggan
Clark William Simmons

Psychology

Sonja Gerda Feingold
Bernice Marion Rosen
Vera Alice Simpkins

Candidates for the Degree of Doctor of Philosophy

Chemistry

Henry William Dion
Ralph Thomas Nazzaro

Geography

Sung-Chiao Chao
George Francis Deasy
Huey Louis Kostanick
David Clinton Winslow

Psychology

Carl Frederick Frost

Conferring of Honorary Degrees

Clarence Saunders Brigham	Presented by Dwight Erwin Lee
Carroll Cornelius Pratt	Presented by Vernon Jones
Robert Luther Sibley	Presented by Jesse Lunt Bullock
Christian Archibald Herter	Presented by Samuel J. Brandenburg

Annual Collegiate Honors

SENIORS

First Honors

Malcolm Everett Baird
Howard Irving Dickinson
Edward Emile LeClair, Jr.
David Benedict Sher

Second Honors

Albert John Bernatowicz
Eugene Francis Carraher
Ralph Elliott Cook
Richard Lorey Day
Gladys Elizabeth Hague
Henry James Halko
Harold Edmond Lurier
Ina Cohen Mason
Richard Woodbridge Moriarty
Joseph Alfred Raboin
Theodore John Ross
D Albert Young
Walter Henry Zukowski

JUNIORS

First Honors

Doris Gertrude Audette
Robert Harrison Carey
John Donaher Ryan

Second Honors

Harold Charles Champeau
Fred John Galanto
Charles David Goodman
Irja Rachel Hofschire
Jacob Cyrus Hortman, Jr.
Ruth Beatrice Mancevice
Mary Elizabeth McGrath
Benjamin Joseph Murawski
Joyce Townsend

SOPHOMORES

First Honors

Raymond John Caefer
Robert John Cogan
Kenneth Shulman

Second Honors

William Aramony
Earl Leonard Croman
Aubyn Freed
Mary June Gallagher
Lyndon E. Ginett
Alfonzo Gonzalez
Gerald Philip Loweth
Robert William Martel
Richard Paul Mitchell
Benedict Oliver Olson
Leonard Richard Weisberg

FRESHMEN

First Honors

Edward Hartnett Conway
Nathalie Ecker
William Andrew McLean
Joan Mary Shiminski

Second Honors

Helen Rose Boyden
John Waldo Karvonen
Robert Alan Lancey
Lois Elaine Monks
Kenneth Edwin Swanstrom

SPECIAL AWARDS

PRENTISS HOYT PRIZE IN POETRY

First Prize awarded to Burton Aldrich Robie for the Poem "Pudding Street"
Second Prize awarded to Carolyn Knight for her "Sonnet"

ORDER OF AHEPA PRIZE FOR EXCELLENCE IN GREEK

Gerald Philip Loweth
Harold Edmond Lurier

CLARK UNIVERSITY BULLETIN

Business Administration Program

OF

Clark University

1948 - 1949

WORCESTER, MASSACHUSETTS

CLARK UNIVERSITY BULLETIN

NO. 185 MAY, 1948

Business Education
in a
Liberal Arts College

Business Administration Program

Clark University

WORCESTER, MASSACHUSETTS

The BULLETIN is published January, March, May, September and October.

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HOMER P. LITTLE, Dean of the College
ARTHUR F. LUCAS, Chairman, Division of Business Administration

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Psychology

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English

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Economic Geography

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Mathematics, Business Statistics

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Geography

THE PURPOSE OF COLLEGE EDUCATION IN BUSINESS

COLLEGE instruction in business administration is no new experiment and has amply demonstrated its value in preparing young men and women for careers in commerce and industry. Although there is no substitute for actual experience in developing sound business judgment, systematic study of business problems provides an essential background for the acquisition of this experience.

The modern business world has become so complex that the experience of a single person can encompass only a small fraction of the whole. Experience needs to be supplemented with the broad training provided by well-rounded college programs of business education. Experience in the analysis of business problems in college materially assists in the analysis of similar problems in the office and factory.

A man or woman who has had systematic practice in learning at school is better equipped to learn on the job. Systematic study in college provides an opportunity to acquire the broad perspective and the capacity to think which are indispensible at the higher management levels.

Tremendous strides have been made in recent years in the development of principles underlying business techniques and procedures. Psychological principles are basic to successful selling, the administration of personnel relations and public relations generally. An understanding of economic trends is essential to many policy decisions. Statistical techniques which are dependent on basic mathematical processes provide the answers to many business problems. A knowledge of the legal basis of business and indeed of the whole political environment in which the business man must function is required by the growing magnitude and complexity of government regulations. Modern accounting analysis is an indispensible aid to successful business administration. Systematic study of these fundamental principles and techniques under competent instructors provides an effective approach to a business career.

The objectives of the Clark program of business studies may be stated as follows:

1. To acquaint the student with the economic, political and social environment in which business must be conducted so that he may relate his own experience to the entirety of business and industrial enterprise and may acquire the perspective that will enable him accurately to interpret seemingly isolated and unrelated phenomena.

2. To give the student an insight into the basic nature of modern industry and commerce; to acquaint him with the organization, the procedures and general characteristics of business and to familiarize him with the principles common to all successful business enterprise.

3. To afford the student an opportunity to acquire experience in analyzing business problems; to provide him with the tools necessary for precise decision-making; and to sharpen his judgment in order that he may be better able to distinguish fact from fancy; in other words, to train him to think intelligently about business problems.

4. To train the student in the basic techniques common to all business; and to give him some proficiency in the accounting, statistical and other technical skills required by a successful business career.

WHY STUDY BUSINESS IN A LIBERAL ARTS COLLEGE

CLARK UNIVERSITY has long been known for the excellence of its educational program in arts and sciences. Young men and women will find a real advantage in procuring their business education in conjunction with such a program. When Clark decided to offer a systematic course of study in business administration, it did so with the conviction that the same educational principles and methods which had made its work in arts and sciences outstanding were equally applicable to the teaching of business. The same high standards of instruction, the same quality of student performance and the same close personal relationship between students and faculty that apply to other sections of the University also apply to the Division of Business Administration.

Modern trends in business education emphasize the importance of the basic and the general rather than the narrowly specific and technical. The most effective program of business education is one based on fundamental courses in economics, psychology, mathematics, the English language, and other "liberal" or general subjects. At Clark all the facilities of the arts and science programs are available to students of business. Subject to the requirements for the business degree, these students are entitled to attend all classes for which they are qualified, including those in psychology, economics, history and other social studies, foreign languages, English, mathematics, chemistry and other natural sciences. Each student is expected to take several of these courses.

Of real value also is the opportunity to acquire training in specific subjects complementary to the major field of professional interest. Thus a young man or woman planning on a business career in the chemical industry may enroll in basic courses in chemistry. A student anxious to prepare himself for work in the field of foreign trade may acquire the necessary training in foreign languages, international relations and geography. One interested in the advertising profession may improve his skill in English composition and the practical arts. Many highly effective combinations of arts and sciences on the one hand and business on the other are possible.

THE CLARK PROGRAM IN BUSINESS ADMINISTRATION

CLARK UNIVERSITY offers a four-year program in business administration leading to the degree of Bachelor of Business Administration. A special administrative unit of the University, the Division of Business Administration, directs the business curriculum. Its function is to coordinate and integrate the work of the various departments and to exercise general supervision over the program.

A cardinal principle of the Clark curriculum is that a small group of basic courses is preferable to a larger number of less essential subjects. Before each course is offered it is scrutinized from the standpoint of its value as a mental discipline, the significance of its factual information in reference to the objectives of the program, and its effectiveness in augmenting the student's technical skills. This has led to the development of a basic "core" of studies in English, economics, mathematics, accounting, law, statistics, American history or government and speech. Courses in these subjects are required of all candidates for the business degree. Approximately half of the entire program consists of these basic required courses.

The remaining half of a student's program normally consists of optional courses, which fall into one or the other of two general types. One type consists of advanced courses designed to give the student a mastery of some professional field in business administration. In this group are courses in accounting, finance, personnel management, labor relations, advertising and selling, foreign trade, industrial and office management, and transportation.

The second type comprises four or five courses in general arts and sciences. At least one of these courses should be taken each year. Students are not restricted in their selections but may choose any undergraduate course for which they are eligible.

At the end of the sophomore year, each candidate for the degree of Bachelor of Business Administration prepares in consultation with his faculty adviser an integrated program of studies covering the junior and senior years. These programs indicate the student's areas of special interest and the specific courses he intends to elect. Ordinarily no program is approved that does not include in addition to the required courses at least five courses in business administration or closely related subjects. Typical of these integrated programs are the following:

Accounting

Intermediate Accounting
Cost Accounting
Auditing
Advanced Accounting
Industrial Management
Office Management

Merchandising

Marketing
Selling and Advertising
Foreign Trade
Office Management
Industrial Psychology

Foreign Trade

Marketing
Foreign Trade
Economic Geography
Industrial Psychology
A foreign language

Personnel Management

Industrial Psychology
Tests and Measurements
Personnel Management
Industrial Management
Office Management
Labor Problems

Management

Intermediate Accounting
Cost Accounting
Personnel Management
Industrial Management
Office Management
Industrial Psychology

Statistics

Business Statistics
Mathematics of Statistics
Business Cycles
Cost Accounting
Industrial Management
Office Management

Exceptionally qualified students may enroll in an "honors" program. This enables a student to substitute independent work under the guidance of an instructor for not more than two formal courses. He may use this work to fill gaps in his program or to extend his studies into special areas not covered by formal courses. Upon completion of this independent study and the sustaining of a comprehensive examination at the end of his senior year, a student receives "Honors in Business Administration". To be eligible to undertake an honors program a student must rank in the upper third of his class.

Other essential features of the Clark program are periodic lectures by prominent business men and field trips to neighboring industrial plants.

THE DEGREE OF BACHELOR OF ARTS

Students who wish to carry a standard four-year program in arts and sciences and receive the degree of Bachelor of Arts may obtain an abbreviated program in business administration. Most business courses also carry credit toward the arts degree. Students must meet all requirements for this degree including those in English, fine arts, foreign languages and sciences. These students should normally major in the Department of Economics and Sociology. It is highly desirable that students should have settled in their own mind which degree they wish to work for when applying for admission. Although transfer is possible, it usually results in some loss of credit.

FACILITIES

All the facilities of Clark University are open to students of business. These include the library with its more than 178,000 volumes and 650 periodicals and newspapers, the gymnasium and other athletic facilities, the dormitories and eating hall, as well as the scientific laboratories and other facilities for instruction.

Worcester as the "industrial heart of the Commonwealth" provides an unexcelled setting for the study of business methods. Clark has enjoyed the support and cooperation of Worcester people and has many close associations with Worcester business. A majority of the business faculty is connected in some capacity with local or national firms and gives the students the benefit of these connections.

Clark has numerous scholarships and loan funds to aid deserving students. These are available to business students on the same basis as to other students of the college.

A recently established placement bureau assists graduates in finding suitable positions.

GRADUATE WORK IN BUSINESS ADMINISTRATION

The Division of Business Administration does not itself offer work at the graduate level. Students who wish to work for advanced degrees may, however, seek training in business administration by making application for admission to the Department of Economics and Sociology. Some of the courses in business administration are accepted in partial fulfillment of the requirements for either the master's or doctor's degree. Further information may be obtained from the Chairman of the Department of Economics and Sociology or the Director of the Division of Business Administration.

REQUIREMENTS FOR ADMISSION TO THE DIVISION OF BUSINESS ADMINISTRATION

The requirements for admission to Clark in the Division of Business Administration are the same in quality and quantity although different in kind from those in the arts program. Admission may be either by certification or examination. A total of 15 units is normally required, which may be distributed as follows:

Required subjects	8 units
English	3 units
Mathematics (algebra)	1 unit
Foreign Language	2 units
Social studies	2 units
Elective studies (of which as many as 3 units may be in commercial subjects)	7 units
Total	15 units

Applicants who cannot present the necessary number of "certified" units should arrange with the Dean of the College to take examinations. Further information and application blanks may be obtained from the Dean of the College.

A student applying for admission to Clark after attending another college is required to submit a letter of honorable dismissal, a complete transcript of his record at the institution last attended and such other information as the Committee on Admissions may request. If he is admitted he will be provisionally classified as a freshman, sophomore, junior, or senior and will be permitted to register for a program corresponding to this classification. He will not be given a final class rating until he has been in residence for at least one semester.

An increasing number of students who commence their college career in two-year junior colleges are finding it desirable to complete their education in a standard four-year institution. Clark accepts only those students who have demonstrated their ability to do satisfactory work at an advanced college level. Even with these students some loss of credit may occur. Because of the concentrated character of most two-year programs in business, students transferring to Clark frequently find it necessary to take a considerable number of general courses during their third and fourth years.

REQUIREMENTS FOR GRADUATION WITH THE DEGREE OF BACHELOR OF BUSINESS ADMINISTRATION

For graduation with the degree of Bachelor of Business Administration, a student must complete a total of twenty year courses (nineteen in the case of veterans) or their equivalent in semester courses. Not more than one-quarter of a student's courses in which he receives grades of D—, D or D+ may be counted toward the degree.

A nearly uniform program is normally required of all freshmen. It includes the following courses: Principles of Accounting (B.A. 117), Fundamentals of Business (B.A. 11a), Industrial and Commercial History (Econ. 12), English Composition (Eng. 11a), Business English (B.A. 14b), Business Mathematics (B.A. 13b), and Physical Training. One optional subject of a non-business character is also taken.

Additional courses required of all candidates for the degree of Bachelor of Business Administration are:

Business Statistics (B.A. 16)
Business Organization and Finance (B.A. 18)
Business Law (B.A. 20)
Principles of Economics (Econ. 11)
Money and Banking* (Econ. 13)
Public Speaking (B.A. 17a)
American Government (Hist. 12) or American History (Hist. 17)

Candidates for the degree of Bachelor of Business Administration are subject to the same general University and College regulations as apply to candidates for the degree of Bachelor of Arts except in so far as these are modified by the special requirements of the business program.

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*Under special conditions Economics 13 may be replaced by certain other courses in Economics.

TUITION AND OTHER EXPENSES

Tuition per year	$380.00
Dining Hall, 32 weeks at $9.50	304.00
Room Rent per year	from $90.00 to 150.00
Activities Fee	20.00
Books and Supplies (estimated)	$40.00 to 65.00
Matriculation Fee (new enrollees only)	5.00
Diploma Fee (upon graduation)	5.00
Induction Fee (freshmen only)	5.00

(All fees are subject to change)

THE BUSINESS CURRICULUM

Following is a selected list of courses offered by Clark University of special interest to students of business. It should be noted that the list does not include the many offerings in foreign languages, natural sciences, and advanced courses in English, history, geography, psychology, economics and sociology. All courses listed below are full year courses, except those marked by an asterisk (*) which are for a half year.

Accounting

B.A. 117, Principles of Accounting. Mr. Bowman
B.A. 127, Intermediate Accounting. Mr. Hargest
B.A. 128, Cost Accounting. Mr. Hargest
*B.A. 227, Auditing. Mr. Hargest
B.A. 237, Advanced Accounting. Mr. Hargest

Economics

Econ. 11, Principles of Economics. Mr. Lucas
Econ. 12, Industrial and Commercial History. Mr. Brandenburg
Econ. 13, Money and Banking. Mr. Maxwell
*Econ. 15a, Public Finance. Mr. Maxwell
*Econ. 21b, Business Cycles. Mr. Hall
Econ. 22, Labor Problems. Mr. Brandenburg
*Econ. 25b, Problems in Public Finance. Mr. Maxwell
Econ. 26, Government and Industry. Mr. Lucas
*Econ. 27b, Problems in International Trade and Finance. Mr. Hall
*Econ. 29b, Economics of Transportation. Mr. Hall

English

Eng. 11, English Composition and Literature. Staff of the English Department

*B.A. 14b, Business English. Staff of the English Department

Eng. 15, Survey of English Literature. Mr. Marble

*Eng. 16b, Advanced Composition. Mr. Moore

*Eng. 11b, Survey of American Literature. Mr. Anderson.

Fine Arts

F.A. 1, Introduction to Representation and Design. Staff of the School of the Worcester Art Museum

Geography

Geog. 10, Principles of Geography. Mr. Warman

Geog. 16, Economic Geography. Mr. Murphy

History, International Relations and Government

Hist. 11, Introduction to the History of Europe. Mr. Lee and Mr. Jordan

Hist. 12, American Government. Mr. Cohen

Hist. 17, Introduction to United States History. Mr. Campbell

Hist. 230, Theory and Practice of International Relations. Mr. Hayden

Hist. 231, International Law and Organization. Mr. Hayden

Law

B.A. 20, Business Law. Mr. Breen

Management

*B.A. 11a, Fundamentals of Business. Mr. Bowman

B.A. 18, Business Organization and Finance. Mr. Lucas

B.A. 112, Introduction to Personnel Management. Mr. Gilson

*B.A. 181a, Industrial Management. Mr. Hargest

*B.A. 182b, Office Management. Mr. Hargest

Mathematics

Math. 10 and 11, Freshman Mathematics. Staff of Mathematics Department

B.A. 13, Business Mathematics. Mr. Patton

Merchandising

B.A. 124, Principles of Marketing. Mr. Bowman
*B.A. 23a, Advertising. Mr. Bowman
*B.A. 23b, Salesmanship. Mr. Bowman
*B.A. 27a, International Trade and Finance. Mr. Hall

Psychology

Psych. 11, General Psychology. Mr. Koch
Psych. 190, Industrial Psychology. Mr. Gilson
Psych. 200, Social Psychology. Mr. Koch
Psych. 214, Tests and Measurements. Mr. Jones

Public Speaking

*B.A. 17a, Public Speaking. Mr. Illingworth
*B.A. 17b, Public Speaking. Mr. Illingworth

Sociology

Soc. 11, Principles of Sociology. Mr. Killian

Statistics

B.A. 16, Business Statistics. Mr. Patton
*Math. 113b, Statistics. Mr. Melville

For further information, address the Dean, Clark University, Worcester 3, Massachusetts.

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FEB. 1949